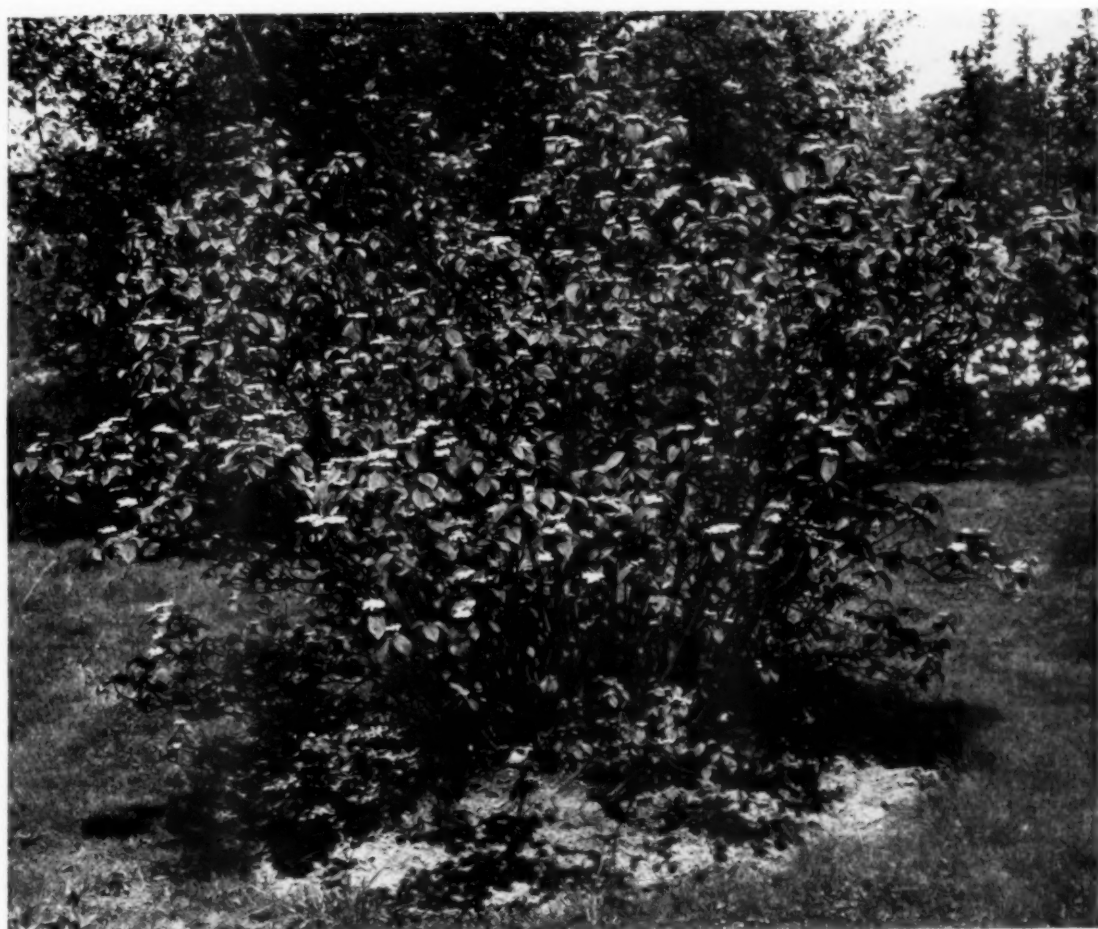


NOV 7 '50

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

SEPTEMBER 15, 1950



Viburnum Wrighti

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SEEDS TREE—SHRUB—PERENNIAL **HERBST BROTHERS**
FLOWER—VEGETABLE—GRASS 92 Warren St., New York 7, N. Y.

Correspondence with seed collectors and growers invited.

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Weather conditions have been ideal for the development of a heavy root system on the following strong one-year, field-grown plants.

For a complete listing of perennials see our September 4 Fall Wholesale Trade List.

	Per 10	Per 100		Per 10	Per 100
Africa. Brilliant carmine-red with blood-red eyes. Well shaped flower heads composed of large compact florets. Good strong stems. 30 inches.....	\$1.80	\$15.00	Leo Schlageter. Brilliant scarlet with orange cast. 36 inches.....	\$1.80	\$15.00
Antoinette Six. This pure white Phlox has unusually large heads, ideal for a huge mass effect.....	1.80	15.00	Lillian. Pure pink without any trace of magenta or rose. Large florets.....	1.80	15.00
Apollo. White. Splendid white with large individual flowers.....	1.80	15.00	Mary Louise. Pure snow-white heads; individual florets are 2 inches. Very fragrant, prolific bloomer.....	1.80	15.00
Apple Blossom. One of the loveliest of all the pastel shades. Soft appleblossom-pink, 2 to 2½-inch florets. 2½ to 3 feet tall.....	1.80	15.00	Mies Copyn. A gorgeous silvery-pink.....	2.10	18.00
Attraction. New salmon-pink.....	2.10	18.00	Mikado. Deep parma-violet, spreading trusses, dwarf, midseason.....	1.80	15.00
Beacon. Large, full trusses of brilliant cherry-red, with wine-red eye.....	1.40	12.00	Mrs. Ethel Pritchard. Self shade of rose-mauve, large flowers.....	1.40	12.00
Brilliant. Large trusses of fiery scarlet with darker eye. 30 inches.....	1.80	15.00	Painted Lady. Silver-pink, with cherry-red eye, tall, early.....	1.80	15.00
Caroline Vandenberg. Large clear lavender-blue clusters with big florets.....	2.10	18.00	Pinkette. The large florets are soft, delicate pink. This unusual coloring is heightened by the fact that the little narrow tubes which fasten the florets to the stem are clear, deep pink.....	2.10	18.00
Champs Elysee. Compact heads of rich purple. 24 inches.....	1.40	12.00	Prime Minister. Extra-large florets of clean white with violet eye. The best of the bicolored whites.....	1.40	12.00
Charles Curtis. Sunset red. It is a fine strong grower about 2½ to 3 feet tall.....	1.80	15.00	Progress. Superb light blue, set off with deeper purple-blue eyes. Extremely large flower heads with 1½ to 2-inch florets. Rich, dark green foliage. 2½ feet.....	2.10	18.00
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Daily Sketch. Large trusses of lustrous pink with crimson-rose eye. Very large, single florets measure 1½ inches across. 3½ feet.....	1.80	15.00	Rosenberg. Deep violet-cerise with slightly darker center and contrasting anthers.....	1.80	15.00
Dr. Klemm. Large trusses of silvery-lavender with diffused violet eye. The effect of a clump of Dr. Klemm in bloom is silvery lavender blue, a color that combines well with pink and salmon shades.....	1.80	15.00	Rosy Blue. Soft lavender-blue with delicate pink undertones. Never a sign of objectionable purple or violet-tinting. The florets are large and grow in fine big clusters.....	2.10	18.00
E. I. Farrington. Salmon-pink with a deep rosy-red blush. Excellent for cutting. 24 inches.....	1.80	15.00	Ruby Lee. Extra-large plum-red flowers. Medium height.....	2.10	18.00
Eva Forrester. (Also known as Salmon Beauty.) Giant, bright salmon-rose flowers with light centers. 10 inches tall.....	1.80	15.00	San Antonio. Carmine shaded plum, the heads and individual flowers are very large.....	2.10	18.00
Flash. New, large, rosy-red. One of the best.....	1.80	15.00	Special French. Large, blush-pink with salmon eye.....	1.80	15.00
George Stipp. A perfect deep, glowing salmon with shaded lighter eye.....	1.80	15.00	Starlight. Rich violet, with an almost perfectly shaped white star in the center.....	1.80	15.00
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Hauptmann Kohl. Dark blood-red. Very large.....	1.80	15.00	Tigress. Large blooms of a very outstanding salmon-scarlet.....	2.10	18.00
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July Lights. Flowers early, grows to a medium height. Each floret shaded with a soft light red with a blood-red eye.....	1.80	15.00			



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Since 1875

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• SHENANDOAH IOWA •

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. XCII, No. 6

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Forms for the October 1 issue will close **Monday, September 18.**

Mail copy to arrive at Chicago by that date—no later!



*Patent Number 2073695

PRICE LIST AND SPECIFICATIONS

TYPE	Height	Top Diam.	Nearest Clay Pot	Approx. Weight	PRICE		
SPECIAL LIGHT	(Packed 200 in carton)			Per 200	Per 200	Per 1000	
No. 0	5½ ins.	5 ins.	6 ins.	25 lbs.	\$5.00	\$22.50	
No. 1	6½ ins.	6 ins.	7 ins.	37 lbs.	7.00	32.50	
No. 2	9½ ins.	7 ins.	8 ins.	50 lbs.	8.00	37.50	
STANDARD HEAVY	(Packed 100 in carton; 300 or more at 1000 price)			Per 100	Per 100	Per 1000	
No. 0	5½ ins.	5 ins.	6 ins.	35 lbs.	\$3.00	\$27.50	
No. 1	6½ ins.	6 ins.	7 ins.	52 lbs.	4.25	40.00	
No. 2	9½ ins.	7 ins.	8 ins.	78 lbs.	4.75	45.00	
No. 3	9 ins.	8 ins.	9 ins.	88 lbs.	5.25	50.00	
EXTRA-HEAVY	(Packed 25 in carton)			Per 100	Per 25	Per 50	Per 75
No. 4	13 ins.	12 ins.		200 lbs.	\$6.25	\$12.50	\$18.75
					Per 100	Per 1000	
						\$22.50	
						\$200.00	

**FILL OUT AND MAIL
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Cloverset
Flower Farm

105th Street and Broadway Kansas City 5, Missouri

It's a fact -
CLOVERSET* POTS
grow BIGGER PROFITS



Now's the time to Pot

CHRYSANTHEMUMS

Oriental Poppies • Bleeding Hearts • Peonies

Thousands of nurserymen have learned through experience that Cloverset Pots make profits GROW—because they increase the volume of sales, help bring a larger profit per sale, save money in handling expenses and make sure that customers will be satisfied with the plants they buy.

This fall, step up YOUR profits the Cloverset way. Order pots now for your chrysanthemums and other perennials—and then sit back and watch your profits grow!

SEND FOR YOUR FREE COPY OF CLOVERSET'S NEW POTTING GUIDE — ORDER A SET OF SAMPLES FOR ONLY 50c, POSTPAID!



THIS EXCLUSIVE FEATURE insures healthy, growing plants. The bottom tabs on all Cloverset Pots seal in place after first watering, leaving correct opening for proper drainage.

*PATENT
NUMBER
2073695

Cloverset Flower Farm
105th St. and Broadway
Kansas City 5, Mo.

ALL SENT
POSTPAID

Please send me items checked. I enclose.....c.

☐ SAMPLE SET, all 8 sizes and weights, 50c

☐ FREE BOOK, "Sell Plants in Pots for Profit"

Name.....

Firm.....

Address.....

City.....Zone.....State.....

AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

DON'T FORGET CUSTOMER.

The number of business enterprises designed to do business with a restricted clientele at generous prices becomes more limited every day. The American tendency to increase business volume seems to be on the basis of adding customers and accepting smaller orders, rather than trying to build up the average size of order while handling the same number of clients.

As we add volume, increase the list of customers and lower the average size of order, we seek machinery and systems to curtail costs. In this particular field, that trend is nowhere more evident than among mail-order nurseries. What they have accomplished in that line is really amazing.

But once in a while the suspicion creeps in that, in reducing all orders to numbers and the handling of them to mechanical contrivances, we may lose sight of the customer as a human being, with those reactions that are more familiar to the nurseryman who meets clients face to face.

The suspicion had a good airing recently when the *Christian Science Monitor* published a contributed article entitled "Nursery Merry-Go-Round." In it John Gould tells how, in seeking an unusual variety of apple tree, he became entangled in the system of a different nursery than the one he had patronized before. It sounds as though he exaggerated the number of communications which he received from the nursery before delivery of his order, but maybe that is the means taken to emphasize his feeling. Then, because the apple tree particularly ordered was not supplied, but a substitute included, he retained \$10 of his remittance until he obtained delivery. A letter from the sales manager expressed regret and said his action was all right. But then the collection department began sending a succession of cards and form letters that does not sound unreal.

The trouble with too many systems is that, after one gets them started, they become so big or so complicated that they are difficult to manage. Perhaps too much system is the reason that some mail-order houses report so big a turnover in

the customer list. Maybe we should give more attention to the customer and less to the system.

HOW MUCH FOR ADVERTISING?

When one studies his expenditure for advertising, he must take into consideration the type of business he operates and the methods by which sales are obtained. The landscape nurseryman or arborist who spends time making cold calls on prospects is advertising, just as much as the man who buys space in his local newspaper. The difference is that one may appear on the book side in advertising expenditure and the other may not.

Different branches of the industry require advertising in different amounts, so that any statement of character cannot be individually applied. Surveys by advertising bureaus have procured figures by industries. Men's clothing shops spend three and one-tenth per cent of their gross sales on advertising. Beauty shops spend five per cent; furniture stores, four and three-tenths per cent; meat markets, only six-tenths of one per cent. Nurserymen and florists are grouped together in these statistics as spending three per cent of gross sales for advertising.

If you wonder whether you do enough advertising, perhaps this figure will provide some basis for estimate. Probably a safer bet would be to be sure you are advertising enough to move the merchandise you wish to sell, or enough to maintain a steady increase in your volume of business.

A QUESTION AND ANOTHER.

In the August 15 issue appeared the appeal of a Pennsylvania nurseryman for information how to cope with Canada thistle and another weed causing particular trouble in the east, having foliage like a chrysanthemum leaf. He reported that spraying them with a 2,4-D compound killed off the top of the plants, but they came up again vigorously from the roots.

Another nurseryman, reading that inquiry, adds the query whether he can use the weed killers recommended to control crabgrass without damaging young evergreen azaleas growing in beds.

From time to time individual re-

ports on the use of chemical weed killers have appeared in these columns, but there are so many nursery crops and so many nursery weeds, not to mention the effects of weather conditions, that it would take an exceedingly long time for any individual to learn the answers in all cases by his own experiments.

So if readers who have used chemical weed killers will contribute their experiences as to material used, strength of application, type of weeds, nursery crops to which applied, etc., we may more rapidly compile data which will be of value to a large number of growers throughout the country. This is an invitation.

MORE SOCIALIZING.

The trend of government control over various phases of economic and social life in Great Britain approaches horticulture in the nature of proposals published lately by the British Socialist Agricultural Society, of which Tom Williams, Minister of Agriculture, is president. These provide for the setting up of a public marketing authority, compulsory registration of all participating horticulturists, control of acreage in various commodity groups, imposition of a package levy to cover costs and to provide an insurance fund to insure growers a minimum price and a grant of two million pounds by the government to endow the project.

The proposals have to do with fruits and vegetables, not ornamental crops. They are not official, but the government's bias gives concern to those involved, and so the proposals have much attention in the horticultural trade periodicals across the water.

TAXES TO SET NEW HIGH.

According to informed opinion at the nation's capital, Uncle Sam's tax collections next year will aggregate about \$50,000,000,000.

At the peak of government spending in World War II, tax collection reached a peak of \$44,800,000,000 in 1945. That peak will be far exceeded next year if Congress enacts revenue measures now contemplated.

If that figure is reached, federal taxes alone will consume nearly twenty per cent of the national income.

Southerners Meet at Historic Charleston

Historic Charleston drew an attendance of members of the Southern Nurserymen's Association not much below the number that celebrated its golden anniversary at Chattanooga last year, while the South Carolina hosts were generous in their preparations and thorough in their arrangements. Excursions to places of historical or horticultural interest filled all the time not scheduled for business sessions at the Francis Marion hotel, Charleston, S. C., August 23 and 24.

Election of Officers.

The vice-president was absent, being recalled to his country's service as Maj. John Varnell. Hence C. Elwood Stephens, manager of the Semmes Nursery, Semmes, Ala., was elected president upon the recommendation of the nominating committee. Also absent, Joe N. Howell, Knoxville, Tenn., was elected vice-president, and James A. Stubbs, Atlanta, Ga., was persuaded to continue another year in the office of secretary-treasurer. A. N. Watson, Monticello, Fla., was elected to the executive committee for a term of one year, in Joe Howell's place, and Hubert A. Nicholson, of the Southern Nursery & Landscape Co., Winchester, Tenn., was elected for a 3-year term. John Bregger, Clemson, S. C., has two years still to serve.

Richmond, Va., was selected as the meeting place for 1951. The by-laws were amended to permit the executive committee to designate any time during the month of August for the convention, instead of the last two weeks. A telegram stating that the Texas Nurserymen's Association had selected August 20 to 22 as the meeting dates next year led to the proposal that the Southern meeting be held the last week of August, hotel arrangements permitting.

Opening Session.

Though heavy showers had relieved the heat outdoors, the air-conditioned meeting room was a welcome place for the opening session Wednesday morning, August 23. Singing of "America" was led by Harold S. Daniels, of the musically talented family of the president. The welcome to Charleston was delivered by Mayor McG. Morrison in person. Response was made by John Wight. Over 100 persons responded in the introductory roll call. Secretary-treasurer James A. Stubbs re-

ported a balance in cash and government bonds of approximately \$2,000.

President's Address.

In a brief official message, President W. C. Daniels mentioned a few topics to provoke members' thinking.

"During the war years we were in a sellers' market," he said, "but this has changed noticeably in the past twelve months, and, although the past planting season was a satisfactory one for almost everybody, we all had more competition and found that we had to work harder in the laboring as well as white-collar fields, and some of us have enjoyed a period during which we could again assume, in part at least, the role of boss. This may be of short duration. In our section, and very likely in others, many back-yard growers have started in business. Plants are sold by such growers for anything they can get; they belong to no trade association; many sell without benefit of previous inspection, not because of any laxity on the part of our inspection authorities, but because these growers are not generally known. Altogether, it is not a happy situation. True, the volume of each grower is small, but the aggregate of many small growers amounts to considerable.

"In our North Carolina association we tried to do something about this, but without much success. A license fee was suggested for all who offered plants or services for sale. We also tried to get a regulation passed requiring an examination before anyone would be permitted to enter the nursery or landscape field,

thus trying to keep competition legitimate as well as to protect the public from unscrupulous dealers, and incidentally to help keep down the introduction of insects and diseases. We found that most concerns offering professional services had to be regulated for public protection—except landscape gardeners and nurserymen. As it is now, anybody can buy a tractor today and be a landscape gardener tomorrow."

Mr. Daniels emphasized the necessity of keeping alert to meet changing conditions. He called attention to the certainty of higher taxes, both individual and corporation, with the probable prospect of advancing costs. "Prices will certainly not be lower within the foreseeable future," he said, "because good plants are still not in plentiful supply, and demand will likely outstrip production for some time to come."

Referring to the current military prospect, he expressed the expectation that, when the emergency is over, Americans must awaken from the spirit of indifference that has been all too prevalent. He closed with the assertion, "The dignity of the individual is a principle which must continue operative if we are to preserve the moral level of our nation. This is America, the land of freedom and equal opportunity for all."

Five-minute Talks.

Touching on various trade aspects, 5-minute talks were made by several association members and others. On camellias, Mrs. Margaret F. Higdon, Charleston, asserted that retail-



C. Elwood Stephens, J. A. Stubbs, A. N. Watson and J. T. Bregger Taking Office at Charleston.

ers can promote interest in these plants and move without difficulty the large numbers now being grown. More information should be given the amateurs, coupled with advice as to varieties. The extent of interest in the camellia is indicated, she said, by the current membership of 7,000 in the American Camellia Society and about 1,000 in the South Carolina Camellia Society, which is only a year old.

Fruit trees in the nurseries, said Hubert A. Nicholson, Winchester, Tenn., are not so numerous as the big crop of 1949. He cited figures to indicate a reduction of about one-third. He thought orchard demand would be better except for the question of manpower raised by the military situation. In Tennessee, frequent rains had caused a poorer stand and poorer growth than usual. For quality stock and larger grades, prices will consequently be firmer.

Azaleas can still be marketed in larger numbers in the southeastern states, asserted Dr. William C. Friereson, Denmark, S. C. Engaged in the Presbyterian ministry, he has been led by his interest in these plants to engage in their commercial production and distribution. He believed more definite information on handling of azaleas, especially as regards their soil needs and the control of lace bugs, was needed by the public for good success. He distributed copies of a folder he had prepared for that purpose.

"Beating the Chiseler" was the title of remarks by Walter E. Campbell, Greensboro, N. C., who in his usual trenchant manner discussed those prospective customers who ask the nurseryman to draw a landscape plan and then, obtaining possession of it, ask bids from competitors. For the ordinary sketch of a small planting he uses a notebook ruled for designers. Then he is able to tell the prospect that the plan cannot be removed from the book, as it contains other memoranda and sketches. Of course, if a customer wants a blueprint prepared, that is done on a fee basis.

In the time allotted, C. Elwood Stephens was able to list some labor-saving devices which had been found highly useful. These included a dump body on a truck, a hydraulic lift on the front of a tractor, planting machines, water tanks on trucks, portable electric generators and trailer trucks and also the use of liquid fertilizer by an attachment on a tractor in cultivating and the use of butane gas for tractors.

Maintaining the proposition, "In-

sects are here to stay," C. H. Brannon, North Carolina state entomologist, related evidences of their age in geologic history. While insect pests might be reduced, there was no evidence of their complete extermination in any instance. War and modern transportation methods exaggerate the problem of insect pests for growers.

Dr. J. E. Cochran, assistant entomologist at the South Carolina experiment station at Clemson, spoke briefly on new insecticides. None gives the final answer, he said, although Parathion is as near to an all-around effective insecticide as any other product. Its toxicity demands full precaution in its use. He emphasized the old adage that no insecti-



Robert W. Boyd.

cide is so important as its proper application.

Protection of peach stock from peach mosaic and the phony peach disease was discussed by T. D. Persons, project leader in this work at Macon, Ga. Both of these are virus diseases, the phony peach disease being more prevalent in the southeastern states and mosaic in the southwestern. Efforts are being made for eradication, control and prevention of spread. Of 234 nurseries growing peach trees, only one failed to qualify upon inspection, and that was the project of a peach orchardist. He recommended that the nurseryman advise his state entomologist if he wishes to put in a peach planting so that he can obtain disease-free stock. Plantings should be located away from plum trees, as the wild plum is an important host.

Concluding the short talks, Henry B. Chase, Chase, Ala., honorary president of the Southern Nurserymen's Association, asserted there

are not enough mature ornamentals in his part of the country to warrant talking five minutes about them. His firm this year had entertained more visitors from distant points hunting good stock than for many seasons.

Mr. Chase explained a banner

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NEW SECRETARY OF TENNESSEE ASSOCIATION.

Robert W. Boyd, of Boyd Nursery Co., McMinnville, was appointed secretary-treasurer of the Tennessee State Nurserymen's Association to succeed John Varnell, of the Eastern Nurseries, Cleveland, Tenn., who resigned after he was called to active service with the United States Army. Executive committee members who appointed Mr. Boyd met August 31 at a special session at the offices of the Forest Nursery Co., McMinnville.

The new secretary-treasurer was born April 22, 1919, to Mr. and Mrs. F. C. Boyd, Boyd Nursery Co. He received his B. S. in horticulture at the University of Tennessee in 1941, after attending the college of agriculture. In 1941 Robert Boyd married Elinor Barker, of Readyville, Tenn. His family now includes a daughter, Bette, 6, and a son, Robert W., Jr., 4.

Entering the United States Naval Reserve in June, 1941, Mr. Boyd served in active duty until September, 1945, when he was discharged and returned to his father's firm, where he is secretary. His duties involve the production and shipping departments. He is an active member of numerous civic and veterans' organizations in the county and is an alderman in the city of McMinnville.

Attending the executive meeting were H. R. Potter, president of H. R. Potter Nursery, Joelton; C. E. Braswell, vice-president of Braswell Nurseries, Smithville; Hubert Nicholson, of Southern Nurseries, Winchester, and John T. Boyd, Forest Nursery Co. David Cartwright, of Cartwright Nurseries, Collierville, is also an executive committee member, but he was unable to attend.

President Potter announced that Richard Jones, Jesse Tritschler and Robert McIntyre, nurserymen at Nashville, would serve as a special committee to contact Governor Gordon Browning about starting a "Plant Tennessee" program in cooperation with the "Plant America" program of the American Association of Nurserymen.

Planting for Housing Units

By Eugene R. Martini

I am supposed to be a landscape architect, but sometimes I have to stop and wonder what is a landscape architect and what can he do? Primarily, he must know plants for their design qualities, their form, their texture and their color through the different seasons of the year. But he must also be an ecologist, a horticulturist and an agronomist. He must be a master of pure design; he must know all about land form, a little about geology, and he must be as thoroughly conversant with drainage and grading problems as is the engineer.

Also, in the field of engineering, he must know something of the composition of pavements, the bearing qualities of soil and the adaptability of different types of building materials for different purposes. Insofar as he gets into housing and subdivision work, he must know a great deal about real estate and land values. He must have a speaking acquaintance with the broad field of city planning, and, above all, for his woman clients, he must know all about flower arrangements.

Now, obviously, no ordinary man and few geniuses could have all of these abilities. I am no exception. I have, however, been exposed to various phases of the housing program and may, therefore, because of this exposure, be able to bring out certain points in connection with the planting of housing developments that may be of value to you.

As nurserymen, you are primarily interested in the types of plants which you will grow and market for housing projects. However, I am taking the liberty of discussing other phases of the housing program, too. I know that many of you, in addition to being nurserymen, are landscape contractors and will be in direct charge of planting installations and lawn construction. I also have a hunch that some of you will somehow be involved in the design of planting plans for housing projects. As designers or landscape contractors, you undoubtedly are interested in the nature of the different housing programs, who is responsible for reviewing or approving the designs,

who is responsible for accepting the finished planting or lawn construction and, most essential, when and from whom payments for lawn construction and planting services can be expected.

Now, when I speak of housing, I, of course, refer to sizable projects. Of these, there are essentially six different types. There are the large developments of single family houses, usually financed under the insurance program of the Federal Housing Administration, although, more recently, the financing is sometimes handled entirely through the Veterans' Administration. Projects such as Dorchester Terrace, at Charleston; Schwyn Park, Charlotte, and Longview & Emory Heights, at Atlanta, are representative of this group. Then there are apartment projects under the FHA 608 or 207 program. These are scattered all over the country (Rivercrest, Charleston; Oglethorpe apartments, Atlanta; Lewis Village, Greenville, and Double Oaks, Charlotte). More recently we have seen the start of military, the Wherry bill, housing projects. These were first awarded to the contractor who, with the help of an architect and site planner, submitted the best possible layout and building plans in competition with other contractors and architects. Examples of these are to be found at Barksdale Field, La.; Fort Knox, Ky.; Fort Benning, Ga., and the Atlanta general depot. Under the new program, the armed services are negotiating contracts directly with architects and site planners.

Coming into the picture strongly now are the public housing projects sponsored by local housing authorities in many of the medium and larger-size towns. These are constructed with grants from the federal government to the local housing authorities. The sixth, and final, type of housing project which will be of any significance are those to be sponsored by the National Security Agency in connection with the development of new plans for the production of war materials. It is as yet a little too soon to know what this program will include.

Now, as to the significant factors in the design and construction stages of the first five housing programs. There is no design stage for planting large projects of single fam-

ily houses. The outline specifications may call for eight shrubs per house, an acceptable finished grade and lawn to the rear of the houses. The developer or contractor usually gets you to plant and grade a typical house and lot, indicates his acceptance and pays you in accordance with the terms of your contract or whenever you can find him. The FHA or the VA or the mortgagee may allow \$50 or \$100 or \$150 for the finished grading, planting and lawn-seeding package, and the owner gets you to do it for \$35 or \$45 or \$75. This is rather a sorry situation, but until the demand for housing slackens and a better product is needed to meet the competition, or until the FHA and VA decide to set higher standards, there is not much hope that the situation will improve. I do not mean to imply that all the FHA personnel are casual about the plantings; some are doing an excellent job, and many of the developers and builders, who are conscious of keeping a good reputation in their communities, are very particular about the finished effect.

Under the FHA 608 or 207 apartment program, planting plans or specifications are usually not submitted during the preliminary or so-called precommitment stage. The zone land planning office, which acts in an advisory and review capacity for the various state underwriting offices, makes an estimate of the number of plants that will be needed and an allowance of cost for the plants, the finished grading and lawn construction.

At the time of closing with the FHA, when final working drawings and specifications are submitted, there must be a complete plant list, planting plans and specifications establishing the quality of plant materials, methods of planting, finished grading and lawn construction. These are checked by the zone land planning office to assure their completeness and their compliance with the requirements and the cost allowance made at commitment.

During the construction period the FHA construction examiner, who is usually on the job full time on large projects and part time on small projects, makes estimates of the work which is completed at the end of each month. These are correlated with the estimates made by the con-

[Continued on page 52.]

Address on "Planting for Housing Units," by Eugene R. Martini, landscape architect, Atlanta, Ga., at the convention of the Southern Nurserymen's Association, at Charleston, S. C., August 23.

Planting FHA-insured Properties

By Arthur L. Shepard

The effectiveness of landscaping is generally accepted as a primary factor in determining favorable initial impressions and in maintaining general acceptability of a building or group of buildings. Therefore, the FHA is vitally concerned with the problem of securing effective planting and established lawns both on rental projects and on subdivision developments of single family homes, because the appeal of the residence depends to a very great extent on the setting and the external treatment by landscaping. We feel that a determination of specific standards for planting would assist nurserymen in securing more effective planting and would help us to secure the kind of planting that prospective owners desire.

The past reputation of nurserymen has been one of fair play and performance of work of which they and all others may be proud. Consequently, we know that nurserymen are capable of doing consistently good plantings and that they have standards. We like the A. A. N. determination that a XX quality is the lowest quality of plant which should be used on any occasion.

We know that nurserymen, in general, favor the best use of native plants in landscaping. Thus, in the south, planting should be predominantly broad-leaved evergreens; in the north, it should be a tasteful mixture of coniferous evergreens and deciduous plants. The use of preferred native material is sometimes complicated by desires of potential buyers, however. A family moving from the north to the south does not know that many broad-leaved shrubs remain green in winter and expects to find some of the coniferous plants which add a home touch and which are known to be evergreen. The use of such nonnative plants as arborvitae should be discouraged in the south, however, and only a minimum number should be used.

A potential buyer also expects a new house to look planted. The shrubs and trees should be large enough to appear to belong with the

house, but they must be varieties that will not outgrow their positions with normal care. A house should be so planted as to frame and emphasize its favorable architectural features—it should not be planted to “float” on shrubs at regular intervals or to cover or detract from attractive architectural features. Houses on corner lots, or any buildings which have ends or rear corners exposed to front views, should have the exposed features planted as effectively as the front of the buildings.

Trees should be large enough to look like trees, but small enough to assure a fairly high percentage of survival. And there should be enough trees to provide ample ultimate shade and specimen accent points. Some of the new trees should be of fast-growing varieties, while others should be slower-growing, longer-lived varieties.

Adequate evergreen screen planting should be provided to disguise unattractive views. Straight-line screening is discouraged, as a series of groups is usually considered more effective.

All of the trees and shrubs should be of varieties which are resistant to the more damaging insects and diseases.

All lawn areas should be smoothly established in permanent-type lawn grass, with sufficient organic material in the topsoil to assure continued growth. Banks difficult to mow or of a secondary nature may be planted with suitable ground cover rather than grass.

Nurserymen know all of these things. Long-established nurserymen have practiced these principles or they would not be long-established. What is needed now is a definition of these principles of planting as applied to residences. Typical planting plans are needed for various types of buildings—plans to show placing of plants for best effect, to show planted and ultimate heights (or spread), to show types (such as broad-leaved evergreen, deciduous, coniferous), but not specific varieties, as that would soon clean out the supplies. Quality should be redefined—and the new standard should be observed.

These things can all be done by the nurserymen. In fact, it is suggested that a definite program for such standards be undertaken by the

nurserymen. We of the FHA land planning section will be glad to assist in any way, on request, in definition of standards or plans of mutual interest, but only the nurserymen can decide what standards to adopt or how to enforce them.

If suitable typical planting plans are prepared, together with satisfactory standards of minimum quality and planting methods, we should be glad to consider recommending their adoption for use on FHA-insured developments in this area.

EXTEND SOCIAL SECURITY.

The amendments to the social security act passed by Congress extend old age insurance to the agricultural employees of nurserymen regularly on the payroll. According to the amendments, farm employees who work for one employer for at least sixty days during one calendar quarter and receive at least \$50 cash wages would be covered for that quarter. Such employees would also be covered the following calendar quarter provided they receive \$50 cash wages irrespective of how much time they worked.

It is estimated that about 700,000 regularly employed farm workers would thus be included in coverage under these amendments, which extend the coverage from 35,000,000 workers to 45,000,000. Other newly covered groups include 5,000,000 self-employed, 1,000,000 domestics and several smaller groups.

Benefits will be increased by the recent amendments. The 3,000,000 aged persons now receiving benefits will enjoy increases averaging seventy-seven and one-half per cent. Benefits for those yet to retire will be approximately double.

To pay for the larger benefits, taxes will be increased. The present one and one-half per cent payroll tax on employees' pay and employers' payroll alike will rise to two per cent on each in 1954, to two and one-half per cent in 1960, to three per cent in 1965 and three and one-half per cent on each in 1970. Further increase in tax is effected by its being levied on the first \$3,600 of a worker's pay, as contrasted with the first \$3,000 as previously.

Self-employed persons will pay social security taxes after March, 1952. Payments will be made annually.

Address on “Planting FHA-insured Properties,” by Arthur L. Shepard, land planning consultant, Federal Housing Administration, Atlanta, Ga., at the convention of the Southern Nurserymen's Association, at Charleston, S. C., August 24.

Texans Hold Convention at Houston

By Betty H. Prim

Industry-wide cooperation in handling and selling nursery stock was the general theme of the seventeenth annual convention of the Texas Association of Nurserymen, which met at Houston, August 21 to 23. Approximately 350 nurserymen and guests registered at convention headquarters, the Rice hotel.

Elect Officers.

New officers elected at the business session August 23 are Donald D. King, King Nurseries, Lubbock, president, and James B. Fitzpatrick, Texas Nursery Co., Sherman, vice-president. Fred E. Hoyt, Hoyt Nursery, Grapevine, was reelected secretary-treasurer. Newly elected directors for 2-year terms are C. O. Smith, Wichita Falls; George W. Vineyard, Big Springs, and Alton Grimm, San Antonio. Incumbent directors are Eugene Howard, Jr., Austin; C. J. Lauden, Tyler; Sterling Cornelius, Houston, and E. E. Leverett, Dallas. Wash Storm, Jr., Alice, was elected for a one-year term.

President Murray Ramsey, Austin, called the meeting to order Monday and gave a brief talk in which he emphasized the need for a unified program of selling the public on the value of nurseries and for coopera-

tion among members of the industry. The retiring president said, "We have not yet sold ourselves on the value of what we do. Most nurserymen are rugged individualists, and the advancement of some of the most important things in our country is because of this individualism, but most advancement also requires cooperation." He stated that nurserymen must discipline themselves and police nursery sales for the good of the industry.

After the invocation was given by Oscar S. Gray, Arlington, the conventioners were welcomed to Houston by Tom Needham, mayor pro tem, who assured them that Houston citizens are deeply conscious of the importance of the nursery industry. The obituary report was given by Mrs. Raymond Mosty, Center Point. Fred E. Hoyt, secretary-treasurer, gave his report, which showed that the association had a balance of \$5,666.48 in its checking account and \$5,000 in a special savings account.

Officers of nurserymen's organizations in Texas and nearby states were introduced, along with out-of-state guests and members of the staff of Texas A. and M. College. Thirty nurserymen and members of allied industries were present from

Louisiana; sixteen from Oklahoma; four from California; three from Alabama; two from New Mexico; two from Tennessee, and one from Georgia.

Sectional Business Reports.

Sectional reports on the business outlook, weather and crop conditions in the various areas of Texas and adjoining states proved to be one of the most popular features of the program. Reporting on conditions in the Lubbock area, Donald King stated that, because of the cool weather in July, planting went better this summer. Since so many new homes have been built, this should be one of the best years in the nursery business around Lubbock, and the labor situation should improve after the cotton-picking season ends. Plenty of small-size stock is available, but the supply of large stock is short.

Located in the Rio Grande valley, George Pletcher, Pletchers Florist & Nursery Co., Harlingen, reported more plants are available there this year. Many citrus trees were destroyed by a heavy freeze in the valley last year. There probably will not be enough citrus trees this year to meet the expected demand for over 2,500,000. Ornamental trees are in good condition, and agencies



New officers and directors of the Texas Association of Nurserymen. Seated, left to right: Fred E. Hoyt, Grapevine, secretary-treasurer; James Fitzpatrick, Sherman, vice-president, and Don King, Lubbock, president. Standing, left to right: Eugene Howard, Jr., Austin; Alton Grimm, San Antonio; Murray P. Ramsey, Austin; G. H. Vineyard, Big Springs; Sterling Cornelius, Houston; C. O. Smith, Wichita Falls; C. J. Lauden, Tyler, and E. E. Leverett, Dallas.

of the United States Department of Agriculture have been keeping a close check on the threat of the black fly infestation in the area.

Mack Semple, Premont Nurseries, Alice, substituted for Wash Storm and said that the supply of stock in that vicinity is adequate for the present. The nurseries grow mostly tropical and subtropical stock. Weather is important, as high winds often make it difficult to grow plants outdoors, and canned stock must be kept under lath. The labor situation is similar to that in other sections, and prospects for fall business are good.

From the Houston area, Paul Teas, Teas Nursery Co., Bellaire, stated that stock was in good condition and that more is available this year than any other time since World War II. There is a shortage of holly and all kinds of shade trees such as live oaks and large maples. Demand also exceeds the supply of banana trees, palms and yuccas used in landscape work for ranch-type houses. Prospects are good for a fine season in the Houston area.

Travis Howard, Travis Howard's Nursery, Austin, mentioned that his nursery has found it necessary to grow stock the past few years, as much of it has been unobtainable otherwise. Stock in 1-gallon and 5-gallon cans is plentiful, but now the need is for larger stock for some of the clientele at and near Austin. Formerly, shade and fruit trees were sold too cheaply. The labor problem has increased in that area, because nurserymen must compete with high wages paid for other kinds of work.

From the northeast central Texas area, L. A. ("Slick") Dean, Arp Nursery Co., Tyler, reported that large ornamental stock is short, but the supply of canned stock probably will meet the demand this year. Pecan trees are more plentiful, but the supply still is short, and the supply of English walnuts is also short. The quantity of roses is approximately the same as last year. Weather has been favorable, and a steadier market on roses is expected.

Growing conditions in the Fort Worth area are about the same as in other places, Frank Mitchell, Mitchell Nursery, Fort Worth, asserted. Plenty of small material is available, but only a limited supply of pecans and fruit trees can be had. Cherry laurel and jasmine are in short supply.

Rene Casadaban, Casadaban's Nurseries, Abita Springs, La., claimed that nurserymen in Louisiana enjoyed a fine business this summer and that there is an ample sup-

ply of small stock, but the supply of large stock is short. There is no shortage in the supply of camellias. Weather has been favorable for growing stock. Mr. Casadaban concluded by inviting the Texas nurserymen to come to Lafayette for the convention of the nurserymen's division of the Louisiana State Horticultural Association in September.

The president of the Oklahoma State Nurserymen's Association, Richard R. Bloss, Jr., Sneed Nursery Co., Oklahoma City, said that the weather has been favorable for growing stock, and nurserymen in that area are looking forward to a good season, provided labor is available. Broad-leaved evergreens are in fairly good supply, but upright trees six feet tall and under are not too plentiful. Mr. Bloss invited nurserymen to visit Oklahoma City during the January meeting of his state association.

Mario Sanseverino, of the O. K. Gardens Nursery & Landscape Co., Tulsa, said stock is in fine condition, labor is short and prices are high in the eastern Oklahoma area.

Laud Quarantine Regulations.

Walter McKay, chief nursery inspector of the state department of agriculture, Austin, gave a talk in which he stressed the importance of nurserymen's complying explicitly with quarantine regulations to prevent the spread of the citrus black fly infestation. He suggested that nurserymen learn quarantine regulations of each state before shipping stock into it, and he urged strict inspection of stock coming into Texas. The agricultural experiment station at Texas A. and M. College is now ready to fight the spread of the disease, Mr. McKay said, and he suggested that the Texas association draw up a resolution asking the federal government to help control this threat to the nursery industry.

Hugh Wolfe, Wolfe Nursery, Stephenville, discussed nursery stock grades and standards and stressed the importance of having proper legislation to protect the industry from unscrupulous persons. He pointed out that Oklahoma now has such laws and that they limit the number of permits to operate a nursery business. Texas needs similar laws, he said, and he added that the present requirements for securing a nursery certificate in Texas are inadequate. Trees sold should be advertised as to their grade, and the trees should be up to standard. He concluded by reminding everyone that the work of his committee in securing proper grading will depend

to a large extent upon the kind of job each nurseryman does, and by urging members to write the association's president and give him their ideas as to what should be incorporated in a bill to help protect the industry in this important matter.

Display Ideas Boost Sales.

"Merchandising Nursery Stock and Extending the Nursery Selling Season" was the subject of an address by Howard Past, sales supervisor of the Monrovia Nursery Co., Monrovia, Calif. The nursery business can be what nurserymen want to make it, he said. Then he mentioned some ways to increase sales. One is to give flower shows in retail stores. Prices on the plants are not necessary; just present a beautiful show. Advertise the event in local papers, or send invitations to customers. Another idea is to make package offers of camellias attractively displayed in the nursery. Shrubbery also has been sold satisfactorily in packages.

Another good promotional stunt is
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EUGENE HOWARD, JR.

For his outstanding work in furthering the nurserymen's short courses at Texas A. and M. College the past year, Eugene Howard, Jr., received the Arp Nursery Co. award at the banquet of the Texas Association of Nurserymen, August 22, at the Rice hotel, Houston.

Born January 15, 1920, at Austin, Tex., Eugene Howard, Jr., was reared in the nursery business, because his father, Eugene, Sr., is an experienced nurseryman in the state. Attending Texas A. and M. College, Texas Technological College and the University of Texas, Eugene, Jr., was graduated from the last-named school, with a B.A. degree. In 1942 he was married to Margaret Wendlandt, and his family now includes two children, Hank, age 7, and Marcy, age 4.

As a captain in the administrative branch of the United States Air Corps, Captain Howard was in service for four years. He returned to Austin and joined his father as a partner in Howards Montopolis Nursery. In 1949 he acted as general chairman of the annual convention of the Texas Association of Nurserymen when it was held at Austin. At that time he was elected to a 2-year term on the association's board of directors. In June, 1950, Mr. Howard served as chairman of the committee of the nurserymen's short course at the agricultural experiment station at Texas A. and M. College.

Shade Tree Conference at Syracuse

By Noel B. Wysong

The twenty-sixth annual convention of the National Shade Tree Conference, held August 21 to 25, at the Hotel Syracuse, Syracuse, N. Y., was successful in the number of persons attending and outstanding for the interest they displayed in every session of the meeting. One delegate attending the conference for the first time was heard to remark that he had no idea any convention could be so interesting and informative.

Four hundred and eighty-eight members and guests registered for the meeting. Those attending represented tree service companies, municipalities, educational institutions and other agencies interested in arboriculture. They came from thirty states, the District of Columbia and Canada. Leading in attendance were New York, with 107; Ohio, 78.

Election Results.

At the business meeting officers for the coming year were elected as follows: President, Edward W. Higgins, of the Frost & Higgins Co., Arlington, Mass.; vice-president, Noel B. Wysong, chief forester, forest preserve district of Cook county, River Forest, Ill.; secretary-treasurer, L. C. Chadwick, department of horticulture, Ohio State University, Columbus, O.; editor, Paul E. Tilford, executive secretary, National Arborist Association, Wooster, O.

Elected to the executive committee for a 2-year term were Winston E. Parker, arborist, Moorestown, N. J.; Prof. Karl Dressel, department of forestry, Michigan State College, East Lansing, Mich., and Roger F. Sohner, Sohner Tree Service, San Anselmo, Calif. Herbert O. Drennan, Carolina Power & Light Co., Raleigh, N. C., was elected to the executive committee for a one-year term to fill the vacancy created by the death of C. M. Blume, of Houston, Tex. John D. Loizeaux, Burnbrae Tree Service, Towson, Md., and Leslie S. Mayne, arborist, San Mateo, Calif., were elected to the membership committee for terms of three years each. Henry T. Skinner, of Morris Arboretum, Philadelphia, Pa., was elected to the nomenclature and standards committee for three years.

Opening Session.

Tuesday morning President Ray R. Hirt, plant pathologist of the New York State College of Forestry, Syra-

cuse, presided and introduced the Rev. Wilbur B. Smith, chapel counselor at Syracuse University, who delivered a brief but inspirational invocation. Following a welcome by Alfred W. Haight, president of the common council of Syracuse, President Hirt introduced Dr. J. S. Illick, dean of the New York State College of Forestry. Dean Illick brought greetings from the college and briefly described the research work in shade tree preservation that is being conducted by the various departments at the college.

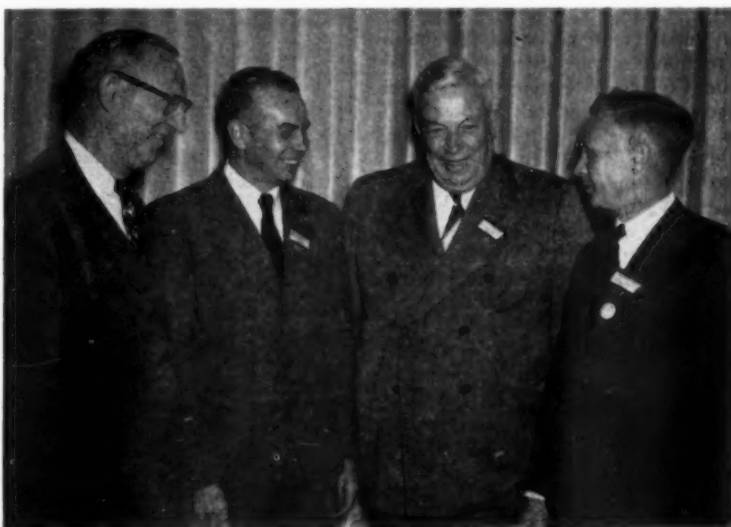
Commenting upon the nation-wide conservation activities that are in progress and upon the fact that much more work of this nature is needed, he said, "We in this country have been blessed with trees, and each of us should put his head and heart into caring for them." To combat successfully the many diseases and insect pests that attack trees requires a well planned, long-range and flexible program, but it is work that will do much to preserve the economic stability of the nation, Dean Illick stated, as he emphasized, "A city without trees is cheerless; a country without trees is hopeless."

Good Public Relations.

Harold K. Schellenger, director of Ohio Voters, Inc., Columbus, O., entitled his address, "Public Relations

Down to Earth." He defined public relations as "Being good and then being sure you receive credit for it." He said that this principle applied to every man, regardless of the business enterprise in which he might be engaged. He advised that both service and salesmanship must be used in building good public relations. Service should include participation in community projects; in school, church and social activities, and acceptance of civic responsibility, in addition to being prompt, friendly and courteous in all business contacts. "A businessman's success," Mr. Schellenger said, "is often determined by his standing in his community, his actions there and his reputation, as much as or more than by the value of his merchandise or product." He pointed out that all visitors to one's office and all contacts should be regarded as important and as potential customers until proved otherwise.

Mr. Schellenger suggested the following four methods generally used to build good public relations that lead to sales: Face to face contacts, telephone contacts, correspondence contacts and publicity or advertising. For purposes of establishing good relations the general public should not be regarded as a homogeneous group, but should be broken down into parts, or subpublics, having common interests. A business owner's employees



New officers of the National Shade Tree Conference. Left to right, Dr. L. C. Chadwick, secretary-treasurer; Noel B. Wysong, vice-president; Edward W. Higgins, president, and Paul E. Tilford, editor.

constitute one subpublic that the owner too often forgets. Employees should be taken into the owner's confidence, kept fully informed of the nature and importance of their work and of their importance to society; then, because of their knowledge and mental attitude, they constitute the best means the owner can employ for establishing good public relations in his community and building a successful business.

Many business letters are too formal and impersonal, Mr. Schellenger said. He advised using the personal touch in all business correspondence. For advertising and publicity, he advocated truthfulness, fairness and honesty. A public relations program is simply a matter of attention to many details and an everyday practice of the golden rule. The establishment of good public relations calls for just a little extra in one's daily activities; it is that extra or plus service that brings in business.

In presenting "Another View of Arboriculture," Norman Armstrong, arborist, White Plains, N. Y., used slides of various cartoons depicting cavity work, planting, tree removal and other arboricultural activities. The cartoons were humorous, but, as Mr. Armstrong explained, such cartoons often represent the viewpoint of the general public toward any profession or trade. He warned that all arboricultural activities must be conducted in an ethical, business-like and courteous manner in order to increase the stature of the profession in the eyes of the public.

Trees for Cities.

Prof. George J. Albrecht, head of the department of landscape and recreational management, New York State College of Forestry, discussed "Trees and Cities of Tomorrow." He said that city trees must be thought of not by themselves but as a part of a big, general scheme composed of streets, sidewalks, houses and all the other constituent parts of an urban community. City planners and those who design street-planting plans must learn to think in broad planting terms and to choose trees that will be in harmony with the width of the streets and the size of adjoining buildings; that will add variety and interest to streets, and that will not require excessive maintenance.

Plantings in the city of tomorrow might include such features as more liberal use of shrubs, fewer but better quality trees, group plantings and single specimens, particularly along short streets, as opposed to row plant-

ings now commonly seen in cities. Trees that are smaller at maturity than the presently favored species are advocated for use on streets of average width, narrow parkways and formal plantings. Larger species, even such trees as horse chestnut and sweet gum that are ordinarily considered undesirable street trees, because their flowers, leaves and fruit cause too much litter on the street, might be planted along broad streets with wide parkways where height and spread are not objectionable and litter can be easily raked.

Commenting on present conditions, Professor Albrecht said that many cities were overplanted, often with undesirable species. To rectify this situation, city foresters were advised to attempt to preserve only the best of such plantings and to develop new plantings more suitable to city conditions. Trees that are to be used on city streets should be developed from youth for that purpose, with special attention being given to pruning while the trees are still in the nursery. Professor Albrecht urged that more restraint be used in city planting; spacing should be such that sunlight and air are admitted freely to the street. In the city of the future, he said, there might well be larger lots for individual houses, more multiple-unit residences, more simple lines in the over-all city design and more contrasts, instead of similarity, in the planting. "More thinking is required if the cities of tomorrow are to be better than those of today," he stated. "Improvement depends upon the imagination of the designer, restraint, execution of the design and maintenance of its features."

2,4-D Injury.

"Tree men recently have been faced with another new tree ailment, injury resulting from the use of 2,4-D," said Homer L. Jacobs, research department, Davey Tree Expert Co., Kent, O., who discussed "2,4-D—Friend or Foe."

"It is a double-edged tool, a useful horticultural tool, because of its selectivity in the control of undesirable vegetation, but one that can cause great injury to trees, shrubs and other plants through careless use, overuse or misuse." Mentioning the general types of 2,4-D commonly used, sodium salts, amine salts and esters, Mr. Jacobs said injury to trees and shrubs might occur from direct splash or mist drift, which can be seen and prevented; vapor drift, resulting from the use of highly volatile compounds, and root absorption through the soil, resulting from overuse or too frequent

applications of 2,4-D on the soil surface.

Symptoms of 2,4-D injury on trees and shrubs were described as ranging from slight distortion of the leaves and leaf petioles to browning of foliage and death of the affected plant. Usually the leaves become thickened and leathery, may be undersized and yellowish or chlorotic in appearance and tend to roll upward or downward, often with a decided cupping of the leaf tip. Depending upon the severity of injury, the twigs become twisted and misshapen. Symptoms are generally more pronounced if injury occurs just prior to a period of rapid growth. When 2,4-D is absorbed through the roots, injury may not become apparent until the following year when leaf and twig deformations and other typical symptoms appear.

In attempting to determine whether injury to trees has occurred as a result of 2,4-D applications or from other causes, Mr. Jacobs suggested examination of other nearby plants that are particularly susceptible to 2,4-D. Among such plants he included tomatoes and other garden crops, tulip trees, cotton plants, dandelions and willows, in which even slight dosages of the chemical result in noticeable symptoms.

In response to questions, Mr. Jacobs said 2,4-D injury had been known to occur through drift as far as 1,000 feet or more from the point of application and no treatment was known that would definitely counteract the damaging results of 2,4-D. As a means of preventing 2,4-D injury, he advised that stocks of 2,4-D should be segregated from insecticides, fungicides and fertilizers to avoid contamination; that equipment used in the application of 2,4-D should not be used for other purposes, since it is almost impossible to remove all the material from spray tanks and hoses, and that 2,4-D should not be used

[Continued on page 38.]

EDWARD W. HIGGINS.

Edward W. Higgins was last month elected president of the National Shade Tree Conference after serving a term as vice-president. He is a past president of the National Arborist Association and of the Massachusetts State Arborists' Association. Besides holding the presidency of his firm, Frost & Higgins Co., Arlington, Mass., which does arboreal work and landscape planting, Mr. Higgins is also president of Mill Street Associates and vice-president of the Frost Insecticide Co.

National Arborist Association Meeting

By Noel B. Wyong

The annual meeting of the National Arborist Association was held August 21, at the Hotel Syracuse, Syracuse, N. Y., with some seventy-five members attending. Personnel problems, finances, trade statistics and similar matters of special significance to the management of tree service companies were discussed. In addition, formal papers were presented on "Dutch Elm Disease Control" and on "Salesmanship and Selling."

At the business meeting Wednesday evening, officers for the ensuing year were elected as follows: President, Walter P. Morrow, Morrow Tree Co., Sewickley, Pa.; first vice-president, Oscar F. Warner, landscape forester, Waterbury, Conn.; second vice-president, Sidney McNeal, McNeal Tree Service, Tiffin, O.; secretary, Gerald J. Corr, Blume System Tree Experts, Houston, Tex., and treasurer, H. N. Engledow, Midwestern Tree Experts, Indianapolis, Ind. Elected to the board of governors were Clyde C. Hartney, Hartney Tree Surgeons, Inc., Dedham, Mass.; Charles F. Irish, Charles F. Irish Co., Cleveland, O., and Ross Farrens, Farrens Tree Surgeons, Jacksonville, Fla. Elected as honorary members were H. Stevenson Clopper, Sr., Charlestown, W. Va.; Dr. Ray R. Hirt, New York State College of Forestry, Syracuse, N. Y.; Dr. L. C. Chadwick, Ohio State University, Columbus, O., and Prof. Karl Dressel, Michigan State College, East Lansing, Mich.

Control of Dutch Elm Disease.

Joseph A. Dietrich, superintendent, division of parks and trees, Greenwich, Conn., spoke on the subject of "Dutch Elm Disease Control," and he emphasized that the application of control measures calculated to prevent the spread of this disease is essential to prevent ever-increasing damage. It is particularly important that a control program be prosecuted vigorously in parks and similar public properties, since homeowners are prone to follow the example set by the officials in charge of such areas.

It is the responsibility of city arborists to formulate an adequate control program and to solicit the support of garden clubs and other civic-minded organizations to assure adequate finances to put it into effect. In such work the commercial

arborist can assist by gathering factual information on the incidence of the disease and by helping to prepare cost estimates of control measures. Public interest can be stimulated by facts, and, when public interest is aroused, the control program can be put into effective operation.

"The policy of 'My neighbor is doing nothing to control the disease; so why should I spray?' is erroneous," said Mr. Dietrich. He then explained that it was possible to protect healthy trees against infection even though diseased trees might be no farther away than fifty or seventy-five feet.

A good control program should include thorough scouting of the entire area for diseased trees; removing and burning dead and dying trees which give protection to the bark beetle, carrier of the fungus; a thorough spraying program; using oxyquinoline benzoate as a means of combating the fungus, and systematically applying fertilizer.

Preventive measures are much more important in controlling the disease than are attempts to cure an infected tree. It was pointed out, however, that when infection occurs in smaller branches, it is sometimes possible to save the tree, or at least prolong its life, by pruning the infected branch beyond the streaking or discoloration of the inner tissues which accompanies spreading of the disease within the tree. The greatest drawback to this treatment is that by the time the typical flagging or other external symptoms appear, the disease has spread to such an extent within the tree that it is generally impossible to prune back far enough to be effective.

Mr. Dietrich advocated the closest possible cooperation between municipal forestry agencies and commercial arborists in a control program, and he urged that statements to the effect that a "substitute for the American elm must be found" should be discontinued. Through an adequate control program the Dutch elm disease can be successfully combated. He concluded, "It is disgraceful that elms are allowed to die."

Talk on Salesmanship.

In discussing "Salesmanship and Selling," Prof. Royal H. Ray, of the department of journalism, Syracuse University, Syracuse, N. Y., pointed

out that arborists sell service, not goods.

In conducting a sales campaign, arborists should more thoroughly acquaint the public with the various services, diagnosis, pruning, spraying, fertilizing and other work commonly performed in the profession of arboriculture. General demand for such services can be stimulated through such standard publicity channels as newspapers, periodicals, the radio and lectures by competent arborists at schools, meetings of garden clubs, service organizations and similar groups. Professor Ray emphasized that all information presented, no matter what medium of publicity was used, must be factual. Accurate and truthful presentation of facts would tend to discourage and to eliminate charlatans and quacks from arboriculture, who not only fleece the public but also damage the profession. In addition to taking advantage of such avenues of publicity, arborists were advised to augment this with an aggressive policy of selling, using direct mail, making personal contacts, using the telephone and, in general, establishing a list of prospects, not suspects.

Professor Ray suggested that one method of increasing sales would be to sell clients on the idea of having a periodic inspection of their trees made, just as they have been sold by the automobile industry on the idea of having their automobiles checked regularly. He also suggested that the wealth or gain appeal, although old in salesmanship, was still highly effective. "Sell service," he suggested, "on the basis of what it will do for the client. It will increase his property value and make him a man of distinction in his community."

Commenting that arborists tend to specialize to a high degree in tree preservation work, Professor Ray recommended package service, which might include tree and shrub planting; lawn, turf and garden work; landscaping, and other fields closely allied to the care of trees. He suggested that arborists broaden their knowledge and their work; so they might be in a position to serve their clients better. "The demand for package service is increasing in our modern way of living," he said, "and the arborist who can give this kind of service will profit in sales."

Pointers on Propagation

By James S. Wells

HUMIDIFICATION.

As the use of some type of humidifying system will almost certainly be considered by most propagators sooner or later, it might be pertinent to consider the basic reasons for using a humidifying system.

When we set out to propagate a plant vegetatively, either by cuttings or by grafts, we are attempting to take a piece of that plant and treat it so that it will eventually acquire roots of its own and be able to maintain an independent existence. In order that we may understand why we carry out the various established procedures of plant propagation, we shall have to consider what happens inside a plant before, during and after its propagation.

For a plant or a piece of plant material to carry on the normal processes of growth, two highly specialized chemical processes have to take place. The first is called assimilation, or constructive metabolism; the second is respiration, or destructive metabolism. In the first process, simple chemicals absorbed in solution from the soil by the plant's roots are converted in the leaves of the plant into complex chemicals, which in turn are used by the plant for its growth and development. This process, which normally proceeds only when the leaves of the plant are in the light, is called photosynthesis. The final product of the chemical processes is starch, which in turn is converted into sugar, this being a soluble substance which can be easily moved from place to place in the plant tissues, wherever it may be needed for growth. This sugar is then combined with nitrogenous substances to form protoplasm, which is the only living substance contained in any plant. Protoplasm may then be broken down into simpler substances to release energy, by which means the plant grows. This is called destructive metabolism. This, in the simplest of terms, describes the processes by which a plant may grow.

From our point of view as propagators, the process of photosynthesis is by far the most important. For this to proceed normally in the plant tissues, light, heat and water, plus adequate quantities of essential chemicals or so-called plant foods, are essential. The cells of the leaves containing the green chlorophyll

must be turgid or, in simple language, fully supplied with water for the chlorophyll to carry out its work of photosynthesis, and this water, of course, normally is supplied in adequate amounts to the roots of the plant by the soil, and in the water, in solution, are the nitrates, phosphates and potash, plus other minor but essential elements which the plant will need. If, for any reason, adequate supplies of water are not available and the cells of the plant do not remain turgid, then the process of photosynthesis will slow



Monarch nozzle and brass T used in conjunction with the half-inch ID (internal diameter) or 5/8-inch OD (outside diameter) copper tubing for humidifying lines in greenhouse. These nozzles are designed to give a fine mistlike spray at pressures as low as fifty pounds per square inch. They operate best at pressures of 120 pounds or more.

down or cease altogether. Then, of course, the plant cannot grow and develop as it should. It is clear, therefore, that light, water and food are prime essentials for plant growth and that under normal conditions these are supplied to the plant by nature and regulated in an orderly and efficient manner.

But now along comes the nurseryman and upsets the balance by removing a portion of the plant, making it into a cutting or a graft. In one fell swoop he removes both the supply of water and essential food from this piece. It surely must be clear that, if the piece of plant is to remain healthy, continue to grow so

that tissue can be formed to heal the wound at the point of severance and finally to produce roots, every care must be taken to keep it in a condition as closely approximating that in which it would have been if it had never been removed as a cutting from the parent plant. In other words, the nurseryman has to supply the cutting with an adequate supply of water to keep it turgid, and he has to place the cutting in a medium which will supply this water adequately, yet at the same time provide the right conditions for the cutting to produce roots. Water is then absorbed into the tissues of the cutting, is raised in the normal manner to upper stems and leaves and finally is given off into the air from the leaves. This is known as transpiration.

Because the supply of water so closely affects the health of the pieces of plants which we are trying to root, the entire skill and effort of the propagator is directed to providing the proper supply of water to the cuttings and also the control of transpiration, or control of loss of water from the cuttings into the air. This is where our humidification methods come into the picture, because it is obvious that if we can maintain the air as fully charged with moisture as possible within the propagating structure, be it frame, greenhouse or pit, the amount which will be given off by the leaves of the cuttings will be correspondingly reduced, and the cutting will remain in a fully turgid condition with the minimum fluctuation in water content of the plant tissues.

The nurseryman normally exercises this control in a number of ways. He may put the cuttings in a closed frame in a greenhouse. He may only partly sever the cutting from the parent plant and provide local conditions for the cutting to root, such as in the air-wrap methods. Or he may sever the piece of the plant and attach it to a separate plant with roots until the two are joined, which, of course, is grafting. But while he is doing any of these things, he pays special attention to the maintenance of adequate supplies of water because he knows that, if he can keep his cutting fat and turgid with stiff, erect leaves in a healthy, bright condition, then it is more likely to produce roots and grow well.

Most of these points are so self-evident that many persons just take them for granted, and certainly the good plantsman has probably unknowingly carried out all of these

requirements from the time he was an apprentice. Which brings us to the question of proper humidification.

Now this is not something new, and please do not think that we are trying to say that anything we are doing is exceptional. Those of you who read the excellent article in the August 15 issue of the *American Nurseryman* on "Propagation of Disease-resistant Elms," by T. W. Bretz and Roger U. Swingle, will realize that much work has already been done on humidification. It is new to us, however, and our object in writing about it is mainly just to describe the teething troubles of an ordinary nursery attempting to apply methods of humidification to its established propagation practices.

Last month we completed the installation of humidifying lines in two houses, and both now are in daily use. One house is being used for rhododendron cuttings and the other for magnolias. It is clear from the short period that it has now been in use that the system we installed in our rhododendron house is much to be preferred. We used $\frac{5}{8}$ -inch OD (outside diameter) copper tubing with Monarch H261 nozzles. We connected this to our normal water supply, which comes from a pressure tank at pressures varying from sixty to seventy pounds per square inch. The nozzles, which are clearly shown in the accompanying illustration, were soldered at 4-foot intervals along the copper tubing, alternating from side to side. At the present time we operate our humidifying system manually, and we shall continue to do so until we know exactly how to use it and what conditions best suit the material we are propagating.

In operation, this line produces a heavy fog of fine water vapor, as is shown in the second illustration. The photograph was taken with the camera in the doorway of the greenhouse, and the draft going in reduced the amount of fog against the door, but, in actual operation, the whole of the house is filled with this foglike mist. The amount of water which is deposited on the leaves of the cuttings can be seen in the illustration.

We use our water direct from our well at a temperature of about 55 degrees Fahrenheit, but we understand that a slight preheating of this water may be an advantage. Theoretically the water should emerge from the nozzle about 5 degrees higher in temperature than the atmosphere, but this is not easy to accomplish. For the present we are not bothering to preheat the

water in any way. Alternatives might be to run a supply line to the nozzles along the top of a heated pipe or to run a section of pipe along the outside wall of the greenhouse so that the water supply had to pass through a long length of pipe which would be in the full sun. However, we find that, with the system as it is, we are maintaining a relative humidity of not less than ninety-two per cent.

We test this humidity two or three times a day with a sling psychrometer, which is a wet and dry bulb thermometer attached to a plate so that it can be whirled round in the air. The section of the wet bulb is dampened down and the psychrometer used in the center of the greenhouse. Three or four readings are taken until they remain the same, and then the difference between the wet and dry thermometers is noted. Psychrometric tables are readily available from the United States weather bureau, and the relative humidity can be quickly determined from these readings. We are quite satisfied with a humidity of not less than ninety-two per cent, for under these conditions the plants which we are attempting to propagate lose practically no water at all by transpiration through their leaves, and their whole energies are concentrated then upon the job of rooting.

We have had the system in operation for only a month, and it is obviously too soon to say what results it will bring. However, one or two points of interest can be reported.

We now have one house full of rhododendrons, and only one week after we inserted the cuttings, they are callusing well. A few cuttings put in earlier have shown practically no signs of disease or deterioration of the leaves and look exceptionally well. We are trying out small quantities of cuttings of a wide variety of plants to find out how they respond under these conditions of excessive humidity and moisture. We were told, for instance, that azaleas would not tolerate such conditions, but we have a few cuttings of *Azalea Hinodegiri* which are extremely soft, medium-soft and twiggy. All of them look fine, and we expect them to root at any moment. Softwood forsythia cuttings rooted in two weeks and were removed. Cuttings of Japanese bloodleaf maples, pink dogwood and *Biota aurea nana* all look exceptionally good, are callusing vigorously, but have not yet rooted. Magnolias responded in a patchy manner. Young and comparatively soft cuttings taken from young plants in vigorous growth responded extraordinarily well and have been lifted and potted just four weeks after being taken. Cuttings which were taken from older plants and which were themselves more mature did not fare well at all under our humidification system and promptly died. Up to the present, they have been our only failure, and from the general appearance of all the material in our houses, this constant mist spray and high humidification are going to be of real value. We are



Humidifying line in operation. Note the fine spray of water coming from the nozzle nearest the front.

now standardizing on the Monarch nozzles and copper tubing and shall be changing to this system in our other greenhouse.

PLANS FOR ANNUAL TEXAS ROSE FESTIVAL.

Rose growers at and around Tyler, Tex., will show their fields to an expected quarter of a million visitors October 6 to 8 during the thirteenth annual Texas rose festival. And officers of the Texas Rose Festival Association, headed by C. J. Lauden, Southland Rose Nurseries, Inc., have planned a gala 3-day program.

The festival will open Friday morning with tours of the rose fields and the opening of the rose show. "Texas roses for Texas homes" will be the theme of the show, which commercial growers are staging free of charge. More than a million cut blooms will be on display daily. The scene of the show has been shifted from its former downtown location to the spacious Mayfair Club on the grounds of the East Texas state fair. Chartered busses will be operated by the festival association to take visitors from downtown Tyler to the rose show. These busses will also be operated without cost to visitors for tours to the rose fields.

Distinguished guests will be entertained at luncheons Friday noon, the ladies in the Women's building

and the gentlemen at the Blackstone hotel. Those fortunate enough to have invitations will go to the rose queen's tea in the afternoon. At 7:30 Friday evening will be staged the spectacular "Pageant of the Rose," at which the rose queen, Jill King, will be crowned. Later that evening members of the Order of the Rose will hold their annual invitational rose queen's ball.

Saturday morning visitors and residents alike will line Tyler's streets to see the rose parade. In the afternoon there will be a football game between Tyler Junior College and the University of Mexico. All festival visitors are invited to "fiesta night," a gala program of entertainment at 7:30 p. m. at Bergfield park. The rose ball will be held at 10 p. m.

The rose show and tours of the field will continue Sunday. In the morning there will be special church services, and at 5 p. m. will be the annual rose vesper services at Bergfield park.

JOHN S. ARMSTRONG WEDS.

John S. Armstrong, 84-year-old founder and president of the Armstrong Nurseries, Ontario, Calif., was married August 17 to Willa Hall Bradley, 44. The new Mrs. Armstrong was a receptionist on the nursery's sales staff for the past four years.

FERNDALE NURSERY SOLD.

Hans Mosbaeck, owner of the Ferndale Nursery, Askov, Minn., has sold his nursery and greenhouse to Mr. and Mrs. Richard Laursen, formerly of Frederic, Wis., who took possession September 1. Mr. Mosbaeck will remain with the firm until the new owners become oriented in the business.

The Ferndale Nursery was started in 1907 by Mr. Mosbaeck's father, Ludvig. After operating a training school in Denmark for many years, Mr. Mosbaeck migrated to Chicago, Ill., where he grew vegetables and bedding plants. In 1905 he became interested in a proposed colony to be established in northeastern Minnesota, and he bought 240 acres of land there. After he and his family moved to Minnesota, Mr. Mosbaeck planted ferns and wild flowers and advertised them in an annual catalog.

After the death of his wife, Mr. Mosbaeck made an extended visit to Denmark. When he returned to the United States in 1935, he gave Ferndale to his son, Hans, and to a son-in-law and a daughter, Mr. and Mrs. H. R. Buck. Both father and daughter died in 1938; Mr. Buck sold his partnership to Hans Mosbaeck in 1948.

The firm has done a nation-wide business in ferns and wild flowers. Many of the wild flowers are grown from seeds and divisions, while some are collected in the woods or bought from collectors in other parts of the country.

CORRECTION.

The following statement which appeared in the August 1 issue of the American Nurseryman, in the account of the Missouri short course by John D. Schatz is misquoted:

"Another important insect which attacks the root system of plants is the white-fringed beetle. At present, it has been found along the main railway lines in southeastern Missouri and in the southwest around Springfield. These beetles may be killed by working fifty pounds of technical DDT into the soil."

The statement should have read: "Counties and main railway lines in southeast Missouri and the railroad yards at Springfield have been thoroughly scouted by federal and state inspectors the past two years. No infestations of white-fringed beetle have been found as a result of these inspections."

R. E. Roselle,
State Entomologist.



Jill King, right, queen of the 1950 Texas rose festival, watches four girls from Tyler rose-grower families demonstrate the art of budding roses. From left to right, the others are: Georgia Larrison, sister of Lloyd Larrison, of Larrison Nurseries; Glenda Atwood, daughter of Mr. and Mrs. W. G. Atwood, of the Atwood Rose Nursery; Anne Todd, daughter of Mr. and Mrs. Orman Todd, operators of the Todd Rose Nursery, and Mrs. Fred Atwood, bride of a Smith county rose grower and daughter of the operators of the Walker Rose Farm.

HOLLAND BULBS—ORDER NOW

250 or more of a variety at the 1000 rate. 100 of a variety at 1/10th the 1000 rate, plus 50c per 100 for packing.

DARWIN TULIPS

	Per 1000
12 cm. and up	
Afterglow, orange, shaded pink.....	\$50.00
Aristocrat, soft violet-rose.....	65.00
Allbright, bright red.....	40.00
Bartigon, cochineal-red.....	40.00
Campfire, blood-red.....	40.00
Demeter, deep violet-blue.....	65.00
Eclipse, large, chestnut-red.....	50.00
Farncombe Sanders, bright red.....	40.00
Golden Age, golden-yellow.....	50.00
Insurpassable, lilac.....	50.00
New Orleans, violet-purple.....	50.00
Philip Snowden, carmine-rose.....	40.00
Pride of Haarlem, carmine-rose.....	40.00
Pride of Zwanenburg, bright rose.....	60.00
Prof. Rauwenhof, bright red.....	40.00
Queen of the Night, deep maroon.....	40.00
Rose Copland, lilac-rose.....	40.00
The Bishop, purple-violet.....	70.00
William Pitt, cochineal-red.....	40.00
Yellow Giant, golden-yellow.....	45.00
Zwanenburg, pure white.....	50.00
Rainbow Mixture, all colors.....	40.00

COTTAGE TULIPS

Advance, scarlet, shaded cerise.....	60.00
Albino, pure white.....	50.00
Golden Harvest, soft yellow.....	40.00
Ossi Oswald, white, flushed rose.....	40.00
Yellow Emperor, golden-yellow.....	40.00
Rainbow Mixture, all colors.....	40.00

BOTANICAL TULIPS

Fosteriana Red Emperor, vermilion-scarlet. Extremely large flower.....	55.00
Præstans Fusilier, Vermilion-orange, 2 to 3 flowers per stem.....	45.00

NARCISSI

	Per 1000	D.N.	D.N.
	No. 2	No. 3	
Aerolite (Trumpet), fine yellow trumpet.....	\$65.00	\$40.00	
Carlton (Incomparabilis), yellow, frilled.....	35.00		
Cheerfulness (Poetaz), double white.....	30.00	30.00	
Hellos (Incomparabilis), yellow, orange cup.....	50.00	30.00	
Inglecombe (Double), fully double yellow.....	65.00	40.00	
Lady Moore (Bart), white, yellow cup.....	50.00	30.00	
King Alfred (Trumpet), golden-yellow.....			
L'Innocence (Poetaz), white, yellow cup.....	D.N. No. 1, \$85.00 per 1000	65.00	40.00
Spring Glory (Trumpet), white perianth.....			30.00
Yellow trumpet.....		65.00	40.00
Texas (Double), yellow, fiery-orange center.....		65.00	40.00
Naturalizing Mixture, all types.....		30.00	30.00

FRENCH PAPERWHITE NARCISSUS

	Per 100		Per 100
12 to 13 cm.....	\$3.50	14 to 15 cm.....	\$6.50
13 to 14 cm.....	5.00	15 to 16 cm.....	7.50

LILIUM CANDIDUM

	Per 100		Per 100
18 to 20 cm.....	\$11.00	24 to 26 cm.....	12.50
20 to 22 cm.....	13.00	26 to 28 cm.....	22.00
22 to 24 cm.....	16.00	28 to 30 cm.....	25.00

CROCUSES

	7 to 8 cm.	8 to 9 cm.	9 to 10 cm.	10 cm. and up
Blue.....	\$ 8.00	\$10.00	\$12.50	\$15.00
Purple.....	8.00	10.00	12.50	15.00
Striped.....	14.00	17.50	20.00	24.00
White.....	17.00	20.00	24.00	27.00
Yellow.....	19.00	22.00	25.00	29.00
Mixed.....	12.00	15.00	18.00	21.00

MISCELLANEOUS BULBS

	Per 1000
Crocus Chrysanthus, yellow, tinted brown.....	\$ 16.00
Chionodoxa Luciliae, lilac-blue.....	12.50
Erantia Hymalis, golden-yellow.....	21.00
Erantia Imperialis, Crown Imperial, mixed.....	175.00
Fritillaria Meleagris, Guinea-hen Flower.....	20.00
Galanthus Nivalis Simplex, Single Snowdrop.....	22.50
Galanthus Nivalis Plenus, Double Snowdrop.....	25.00
Muscari Armeniacum, deep cobalt-blue.....	10.00
Muscari Heavenly Blue, clear blue.....	12.00
Muscari Plumosum, Feather Hyacinths, violet.....	12.50
Sella Campanulata, white, blue, pink and mixed.....	16.00
Sella Sibirica, sky-blue.....	16.00

BREEDER TULIPS

	Per 1000	12 cm.	11 to 12 cm.
Dillenburg, orange-apricot.....	\$50.00	\$40.00	
Georges Grappe, lavender.....	50.00	40.00	
Tantalus, buff-yellow, with purple-lilac shadings.....	50.00	40.00	

TRIUMPH TULIPS

Alberio, red, edged yellow.....	45.00	35.00
Aviator, red, edged white.....	45.00	35.00
Bandoeng, mahogany-red, edged yellow.....	40.00	
Crater, deep crimson.....	45.00	35.00
Kansas, white.....	40.00	
Korneforos, crimson-red.....	45.00	35.00
Pres. Hindenburg, red, edged yellow.....	45.00	35.00
Telescopium, rosy-violet.....	40.00	
Ursa Minor, deep yellow.....	45.00	

MENDEL TULIPS

Her Grace, lilac, white base.....	55.00	45.00
Krelage's Triumph, deep red.....	45.00	35.00
Scarlet Admiral, vermilion.....	45.00	35.00
Van der Eerde, wine-red.....	45.00	35.00

DOUBLE LATE TULIPS

Eros, old rose.....	65.00	50.00
Mount Tacoma, white.....	65.00	50.00
Symphonia, carmine-rose.....	65.00	50.00

PARROT TULIPS

Blue Parrot, violet-blue.....	40.00	30.00
Fantasy, pink, green markings.....	50.00	40.00
Orange Favorite, orange.....	65.00	55.00
Red Champion, cochineal-red.....	65.00	55.00
Sunshine, golden-yellow.....	75.00	65.00
Therese, bright red.....	65.00	55.00

SINGLE EARLY TULIPS

	Per 1000	11 to 12 cm.	12 cm. 11 cm.
Couleur Cardinal, scarlet.....	\$50.00		
General de Wet, orange.....	45.00	\$35.00	
Ibis, pink and white.....	45.00	35.00	
Keizerskroon, red and yellow.....	50.00		
Sunburst, yellow-red.....	45.00	35.00	
White Hawk, pure white.....	45.00	35.00	

DOUBLE EARLY TULIPS

	12 cm.	11 to 12 cm.
Electra, wine-red.....	\$60.00	\$50.00
Marechal Niel, yellow.....	60.00	50.00
Mr. Van Der Hoeft, yellow.....	60.00	50.00
Murillo, white.....	60.00	50.00
Orange Nassau, orange.....	60.00	50.00
Peachblossom, pink.....	60.00	50.00

HYACINTHS

(100 of a variety at the 1000 rate)

	Per 1000
14 to 15 cm.....	\$ 65.00
15 to 16 cm.....	75.00
17 to 18 cm.....	95.00
18 to 19 cm.....	115.00
Varities marked (*) available in 14 to 15 and 18 to 19 cm. only.	
Bismarck, sky-blue.....	
*City of Haarlem, yellow.....	
Gertrude, deep pink.....	
Grand Maitre, lavender-blue.....	
King of the Blues, dark blue.....	
*La Victoire, carmine-red.....	
L'Innocence, white.....	
Lady Derby, light pink.....	
Marconi, bright rose.....	
Myosotis, light blue.....	
Pink Pearl, bright pink.....	
Queen of the Pinks, deep rose.....	

HOLLAND BULBS



DARWIN TULIPS
(LONG STEMMED)
BARTIGON
red

PACKED IN HOLLAND

Colorfully Packaged for Counter Selling

A TRIAL CASE contains 200 Cellophane packages:

- 50 Packages of 6 MIXED Tulips
- 25 Packages of 6 RED Tulips
- 25 Packages of 6 PINK Tulips
- 13 Packages of 6 YELLOW Tulips
- 12 Packages of 6 PURPLE Tulips
- 15 Packages of 3 PINK Hyacinths
- 15 Packages of 3 BLUE Hyacinths
- 15 Packages of 3 WHITE Hyacinths
- 30 Packages of 12 MIXED Crocus TULIPS: 11 to 12 cm.
- HYACINTHS: 15 to 16 cm.
- CROCUS: 7 to 8 cm.

COST: \$49.50 per case

HOLLAND BULB COLLECTION

A Special Collection of Holland bulbs—in bulk form, designed primarily for the small retailer. Colored pictures included in each collection. Contents as follows:
1000 TULIP BULBS, 11 to 12 cm.
100 each of 10 outstanding varieties, well balanced as to colors.
100 CROCUS BULBS, 15 to 16 cm.
30 Blue, 30 Pink, 40 White.
100 KING ALFRED DAFFODILS, D.N. No. 2
150 CROCUS, Mixed Colors, 7 to 8 cm.

YOUR COST: \$49.50 per collection.

TERMS: 2% 10 days, 30 days net to firms with established credit. Subject to prior sale. F.O.B. Farmington. Subject to prior sale.

GROWERS EXCHANGE, Inc.

HORTICULTURAL DISTRIBUTORS

P.O. Box 264 FARMINGTON, MICH.
Telephone: Farmington 1890

Plant Notes Here and There

By C. W. Wood

After having grown *Geranium* Russell Prichard at least four times and having corresponded with amateur and commercial growers about the plant, I have come to the following conclusions:

First of all, to put the plant's only unpleasant feature out of the way, this variety is definitely not hardy in this severe climate. I was puzzled about the fact at first, because I had been told that one of its parents was *G. sanguineum*, but it became clearer when I found out that its other parent was the tender New Zealand-er, *G. traversi*. I do not know how much cold the hybrid can stand, though a Virginia gardener tells me it has been growing for him for about ten years.

The plant itself is a beauty, having inherited some of the silky silverness of *G. traversi*. For some timid souls that kind of foliage takes the curse off the carmine-rose color of its flowers, because even if one does not like carmine-rose, the silvery foliage makes it acceptable to most gardeners. If one could not make up his mind to like the color, there would be a long period of agony, for *G. Russell Prichard* is continuously in bloom from June until heavy frost, which makes it one of the champion long-time bloomers. Here in northern Michigan it grew eight or nine inches tall in a sunny spot and seemed to prefer gravel soil.

Being a hybrid, *G. Russell Prichard* cannot be expected to come true from seeds. Actually, it never produced a seed while we grew it, though it may do so in a more congenial climate. It must, therefore, be grown from divisions or cuttings. Most hardy geraniums come quite readily from cuttings in early spring, soon after growth commences. Dig a clump, pull away the new growths with a heel and root in the usual way for stem cuttings.

Some American Vines.

A correspondent asks for a short list of native vines and two or three native ground covers. I am glad that he was not more specific, because it enables me to sing the praises of one of my favorite ground covers.

There are few gardens that do not need ground covers. And what do we find carpeting the ground in American gardens? Had any other country been blessed with such a wonderful vine as our native partridgeberry,

Mitchella repens, our gardeners would go into raptures over it. But we have ignored it completely, contenting ourselves with foreign fancies. Personally, I can enjoy the friendly periwinkle, *Vinca minor*, but as for the ubiquitous Japanese spurge, I turn my head when I see it. However, in the partridgeberry we have the most charming and beautiful ground cover that nature ever bestowed upon man. When you are tempted to plant any exotic ground cover, let these facts about the partridgeberry have a bearing upon your decision: Its restrained growth will never allow it to become troublesome in any situation; its delightful fragrance, when the plant is in bloom, is not to be overlooked by the gardener who enjoys his garden through the olfactory sense, and its bright red, persistent berries are not only a delight during the fall and winter months, but a few of them in a bowl make winter indoors far more enjoyable.

Contrary to the widespread opinion, partridgeberry is not difficult to grow. In northern Michigan I find it growing in dense shade, in full sun and in all gradations between the two extremes. The general supposition is that it needs an acid soil. Actually, the vine does well in a neutral medium, and I hear from observers in other states, Arkansas, for one, that it grows well in those sec-

tions in a lime soil. However, I have never seen it growing where limestone was present. After years of observation, I should say that partridgeberry will grow in any garden in which the soil is not alkaline, and it might be possible to grow it there if one had material from an alkaline region. If the plant is collected from the wild, a duplication of soil conditions in the plant's native home should be attempted; pot-grown plants from a nursery may be grown successfully almost anywhere.

Among the clematises may be found some of the loveliest of native climbers and a color to suit almost anyone's taste. If I were to name my favorite in this class of clematises, I suspect it would be the rock clematis, *C. verticillaris*. Here is a native climber that compares favorably and to its own advantage, in my estimation, with the large-flowered blue and purple hybrids, such as the varieties Jackman and Ramona. It grows eight to ten feet wide or high, as the case may be. Perhaps wide is more exact, because this species seldom climbs in the natural state, but is mostly found clambering over rocks or draping rocky slopes. It will, however, cling to supports when they are provided. Its large, 3 or 4-inch wide, purple or blue flowers are produced abundantly in May and June. The blooms are followed by wavy achenes, not unattractive in

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LEGHORN'S EVERGREEN NURSERIES

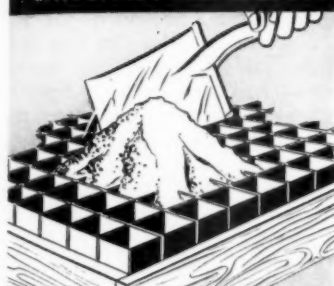
Geer Street

CROMWELL, CONN.

BIRD VITA-BANDS

Prove Their Value in Higher Net Profits

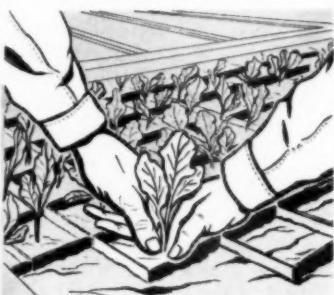
HERE'S HOW
VITA-BANDS ARE USED...



TO USE—In Flats or Benches,
fill with soil



In cold frames, plunge bands



Transplant in usual manner.



Plant at right was grown in Vita-Band; one at left was not. Rootball protection given by Vita-Bands aids head start to premium prices.

Vita-Bands are nutrient-treated growing aids... they are easily set up, require very little labor and produce higher net profit because crops reach an earlier market and command higher prices!

The reasons are many. Vita-Bands are used as a growing aid for plants in the vital transplant stage... they eliminate rootshock, save 1 to 3 weeks setback, stimulate well-balanced growth—and aid moisture control!

The results have been proved time after time: growers starting their crops in Vita-Bands hit the early market for premium prices! Write us for more information or order from supplier's catalogue. Bird & Son, Inc., Dept. AN-1, East Walpole, Massachusetts.

VITA-BAND 40 designed for long growing periods usually up to 40 weeks. Extra heavy construction for durability. Impregnated with balanced plant food... your observation will determine need of additional feeding. We recommend removing Band when transplanting.

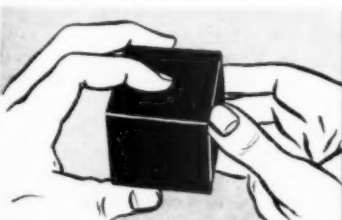
VITA-BAND 10 for short growing periods. Will usually contain root growth up to approximately 8 to 10 weeks. Nutrient-treated with quickly available plant food... your judgment determines need for additional feeding. Especially good for annuals and vegetables.



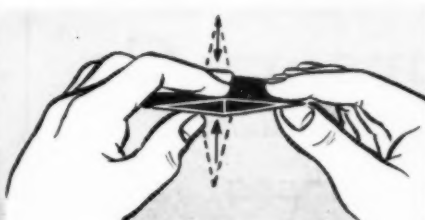
PLANT BANDS		PRICE PER 1000—SIZES IN INCHES							
Sold in units of 1000 only	1½ x 1½ x 2½	3½ x 1½ x 2½	2 x 2 x 2½	2 x 2 x 3	2½ x 2½ x 3	3 x 3 x 3	4 x 4 x 3	4 x 4 x 4	
	VITA-BAND 40	—	5.40	5.95	6.50	8.00	9.25	—	—
	VITA-BAND 10	3.30	3.55	4.00	4.55	5.30	6.15	8.05	10.15

Prices higher in Rocky Mtn., Pacific Coast, Texas and Gulf State areas.

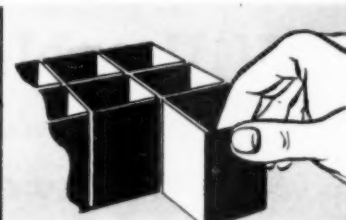
BIRD VITA-BANDS • TOM THUMB FLATS • VITA-POTS • RED POTS



TO SET UP—Pick up like this...



squeeze and press corners...



set in place...

PEONIES

Standard 3 to 5-eye divisions from young plants not over 3 years old. We do not cut any flowers from our fields; so you can depend upon good strong, healthy plants.

	Per 10	Per 100
Duchesse de Nemours (8.1). Early; pure white.....	\$4.00	\$35.00
Edulis Superba (7.6). Early; old rose pink.....	3.20	28.00
Felix Crousse (8.4). Midseason; bright red.....	4.50	40.00
Festiva Maxima (9.3). Early; white, crimson flecks.....	4.50	40.00
Fontenelle. Midseason; large; deep red.....	4.50	40.00
Francois Ortegat (6.7). Midseason; purplish-crimson.....	3.20	28.00
Karl Rosefield (8.8). Midseason; bright crimson.....	4.00	35.00
Lady Alexandra Duff (9.1). Midseason; blush-pink.....	5.00	45.00
La Perle (8.5). Midseason, old-rose, flecked red.....	4.00	35.00
Mme. de Verneville (7.9). Early; white, crimson flecks.....	4.00	35.00
Mons. Jules Elie (9.2). Midseason; light rose-pink.....	4.50	40.00
Myrtle Gentry (9.1). Late midseason; pink.....	6.50	60.00
Reine Hortense (8.7). Midseason; rose-pink.....	3.50	30.00
Sarah Bernhardt (9.0). Late; large apple blossom pink.....	4.50	40.00
Unnamed, pink.....	3.00	25.00
Unnamed, red.....	3.00	25.00

OUTSTANDING PERENNIALS

	Per 10	Per 100
Dixie Phlox. A Willis introduction. Outstanding for its disease-free foliage. Large flower heads of bright orchid-pink on tall, strong stems. Withstands high temperatures and thrives in dry weather. Field-grown roots.....	\$1.40	\$12.00
Stokesia (Stokes Aster). Blue Moon. China-blue flowers, often five or six inches across, growing on strong stems, 12 to 18 inches high. Free-flowering, perfectly hardy, disease and insect free. Blooms all summer and autumn until hard frost.....	2.10	18.00
Gypsophila Bristol Fairy. Large, double, white flowers. Fine for cutting. Blooms all summer.....	4.00	35.00
Dicentra spectabilis. Old-fashioned Bleeding Heart. Large pink, heart-shaped flowers borne on graceful drooping stems in April and May. Blooms first year. Large 3 to 5-eye roots.....	4.50	40.00
Helianthus multiflora Fl.-Pl. (Loddon's Gold). Large, double dahlia-like flowers; bright golden-yellow. Excellent for cutting. Blooms all summer.....	2.40	20.00
Iris Ochroleuca. Best Iris for cutting. Very showy, white standards, falls yellow with white margin. Several large flowers on each stem.....	2.10	18.00

GIANT VICTORIA RHUBARB

Whole Roots	Per 100	Per 1000	Per 5000
2 to 2½-in.....	\$10.00	\$90.00	\$425.00
1½ to 2-in.....	7.50	70.00	325.00
1 to 1½-in.....	5.00	45.00	200.00
5/8 to 1-in.....	4.00	35.00	150.00
½ to 5/8-in.....	3.00	25.00	100.00

AMUR RIVER NORTH PRIVET

	Per 100	Per 1000
3 to 4 feet, 5 canes.....	\$20.00	\$175.00
2 to 3 feet, 4 canes.....	13.50	125.00
18 to 24 inches, 3 canes.....	11.00	100.00

Willis Nursery Co.

"Your Wholesale Nurserymen"

Ottawa, Kansas

their own right. All these features combined make a plant of long-lasting beauty and usefulness.

If the gardener's fancy turns to red, it may be gratified with the scarlet clematis, *C. texensis*. The species grows five or six feet high, with slender stems and small leathery leaves, and its showy, pitcherlike, scarlet flowers light up any trellis or boundary fence they are allowed to climb. Being a native of Texas, the clematis would naturally be expected to be tender to the cold of our northern states, and, if one lives as far north as northern Michigan, he will not be wrong, unless the plant is put in a protected spot. Yet the plant must be hardier than it is supposed to be, because for several years we had one growing in a southwest nook where it was protected from all winds except the ones from that quarter.

It would seem unnecessary to mention virgin's-bower, *C. virginiana*, but observation tells me that many gardeners still prefer to bother with difficult exotics in preference to accepting what nature has provided at their doorsteps. Hardy, vigorous, free-flowering, beautiful, virgin's-bower possesses most of the endearing characteristics of the perfect vine. It is lovely at all times, from the moment its cut-tooth leaves develop in the spring until it becomes dormant with the autumn frost. But no vine is lovelier than is virgin's-bower when it is covered with misty white flowers from late July or early August far into September.

Although I have never been an ardent admirer of our native Dutchman's-pipe, *Aristolochia durior*, which is the plant we formerly knew as *A. siphon* and sometimes as *A. macrophylla*, it is mentioned here, because there are few climbers that produce so dense shade as this one does. Its broad, heart-shaped leaves, a foot or more across, furnish a thick, cool shade, especially satisfying as a screen for porches or outdoor living rooms. Its grotesque, purplish flowers in the form of a Dutchman's pipe are of no great beauty, but the vine can find a useful place in gardens when used as a screen.

The trumpet creeper, *Campsis radicans*, also called *Bignonia radicans*, or *Tecoma radicans*, has never aroused great enthusiasm in me, either, though I have to admit that it has its garden uses. One of its good points is its August and September flowering period, a time when the garden can use all the color it can find in permanent plants.

FOREST NURSERY CO., Inc.

McMINNVILLE, TENNESSEE

Day Phone 234

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J. R. Boyd, President

John T. Boyd, Vice-President

SUPPLEMENTARY LIST

We are pleased to offer this supplementary list of assorted items for Fall delivery, not included in our 6-page ad in the September 1 issue. All stock is first-class and graded according to A. A. N. standards.

MULTIPLE APPLE

Five-N-One	Per 10	Per 100
7 to 9/16-in. Caliper.....	\$7.00	\$65.00
9 to 11/16-in. Caliper.....	8.00	75.00
11/16-in. Caliper and up.....	9.00	85.00

APPLE, Assorted

2-yr. Grafts, Well Branched.

Varieties:

Red Delicious		
Grimes Golden		
Jonathan		
Stayman Winesap		
Yellow Delicious		
7 to 9/16-in. Caliper.....	3.00	25.00
9 to 11/16-in. Caliper.....	3.50	30.00
11/16-in. Caliper and up.....	4.50	40.00

CHERRY

SOUR—1-yr. Branched

Varieties:

Montmorency		
Early Richmond		
7 to 9/16-in. Caliper.....	5.00	40.00
9 to 11/16-in. Caliper.....	6.00	50.00
11/16-in. Caliper and up.....	7.00	60.00

SWEET—1-yr. Whips and Branched

Variety:

Black Tartarian		
7 to 9/16-in. Caliper.....	6.00	50.00
9 to 11/16-in. Caliper.....	7.00	60.00
11/16-in. Caliper and up.....	8.00	70.00

FLOWERING CRAB APPLE

1-yr. Grafts:

Varieties:

Malus Eleyi		
Malus Floribunda		
12 to 18 ins.....	2.50	20.00
18 to 24 ins.....	3.00	25.00
2 to 3 ft.....	3.50	30.00

2-yr. Grafts:

Variety:

Malus Hope		
4 to 5 ft., Well Br.....	6.00	50.00
5 to 6 ft., Well Br.....	7.00	60.00

PURPLELEAF FLOWERING PLUM

Varieties:

Prunus Newport		
Prunus pissardi		
Prunus Thundercloud	Per 10	Per 100
12 to 18 ins., June Buds.....	\$2.50	\$ 20.00
18 to 24 ins., June Buds.....	3.00	25.00
2 to 3 ft., June Buds.....	3.50	30.00

PECANS

Varieties:

Mayhan, Stewart,		
Schley, Success.		
2 to 3 ft.....	12.50	110.00
3 to 4 ft.....	15.00	125.00
4 to 5 ft.....	17.50	150.00

ROSA MULTIFLORA JAPONICA

For Living Fences

	Per 1000
12 to 18 ins.....	\$25.00
18 to 24 ins.....	35.00

MISCELLANEOUS

ASPARAGUS

Varieties:

Paradise			
Martha Washington	Per 10	Per 100	Per 1000
2-yr., No. 1.....	\$0.40	\$ 1.75	\$ 12.50
2-yr., No. 2.....	.30	1.25	10.00
RHUBARB, Victoria.			
1/2 to 3/4-in.....	.70	6.00	50.00
3/4 to 1-in.....	.80	7.00	60.00
1-in. and up.....	1.00	8.00	70.00

LINING-OUT EVERGREENS

ABELIA GRANDIFLORA, Glossy Abelia.

6 to 9 ins., field-grown C.....	1.25	10.00	90.00
9 to 12 ins., field-grown C.....	1.50	12.50	100.00
12 to 15 ins., field-grown C.....	1.75	15.00	125.00

ILEX OPACA, American Holly.

2 1/4-in. pot plants.....	3.00	25.00
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TSUGA CANADENSIS, Canadian Hemlock.

4 to 6 ins., Tr., B.R.....	1.50	12.50	100.00
6 to 9 ins., Tr., B.R.....	2.00	15.00	125.00
9 to 12 ins., Tr., B.R.....	2.50	20.00	175.00
12 to 15 ins., Tr., B.R.....	3.00	25.00	225.00

— IMPORTANT —

PLEASE REFER TO OUR 6-PAGE AD ON PAGES 16 TO 21 IN THE SEPTEMBER 1 ISSUE FOR A MORE COMPLETE LIST OF THE ITEMS WE HAVE TO OFFER.

NURSERY STOCK - FALL 1950

1,000,000 transplanted liners; 2, 3 and 4 years in field beds. X indicates times transplanted. Not less than 25 of a variety at the 100 rate. Shipment by express only. Terms: Cash with order and packing free; otherwise, 1/3 deposit with order and balance C.O.D. and packing charged. Japanese beetle certification upon request. Balled material must be picked up at nursery.

	100 rate each
Azalea Ghent hybrids, 9 to 12 ins., XXX, 4-yr.	\$1.00
Azalea Ghent hybrids, 12 to 15 ins., XXX, 4-yr.	1.50
Azalea kaempferi, 6 to 9 ins., XXX, 3-yr.	.45
Azalea kaempferi, 9 to 12 ins., XXX, 3-yr.	.65
Azalea kaempferi, 12 to 15 ins., XXX, 3-yr.	1.00
Azalea mollis, 9 to 12 ins., XXX, 3-yr. branched.	.65
Azalea mollis, 12 to 15 ins., XXX, 4-yr. branched.	1.00
Azalea mollis, 15 to 18 ins., XXX, 4-yr. branched.	1.40
Azalea mollis, 18 to 24 ins., XXX, 4-yr. branched.	1.90
(B&B on above azaleas, add 25c ea.)	
Calycanthus floridus, 10 to 20 ins., adlg., 2-yr.	.10
Chamaecyparis lawsoniana pendula, 10 to 15 ins., 2-yr.	.22
Chamaecyparis laws. Triumph D. Boskoop, 10 to 15 ins., 2-yr.	.22
Chamaecyparis laws. allumi, 10 to 15 ins., XX, 2-yr.	.25
Chamaecyparis filifera aurea, 6 to 12 ins., X, 2-yr.	.25
Cytisus scoparius, X, 3-yr.	.20
Cedrus libani, 8 to 12 ins., 2-yr.	.35
Euonymus carrierei, 6 to 12 ins., XX, 2-yr.	.22
Euonymus coloratus, 6 to 12 ins., XX, 2-yr.	.22
Euonymus fortunei erectus, 8 to 15 ins., XX, 2-yr.	.20
Euonymus fortunei erectus, 12 to 18 ins., XXX, 3-yr.	.35
Euonymus vegetus, 8 to 15 ins., XX, 2-yr.	.25
Hex erenata bullata, 6 to 8 ins., XX, 2-yr.	.25
Hex erenata bullata, 8 to 12 ins., XX, 3-yr.	.45
Hex glabra, 6 to 10 ins., XX, 2-yr.	.30
Hex rotundifolia, 6 to 8 ins., XX, 2-yr.	.25
Hex rotundifolia, 8 to 12 ins., XX, 3-yr.	.45
Hex rotundifolia, 10 to 15 ins., XXX, 4-yr.	1.00
Juniperus glauca hetzi, 8 to 10 ins., XX, 2-yr.	.25
Juniperus glauca hetzi, 10 to 15 ins., XX, 2-yr.	.35
Juniperus glauca hetzi, 12 to 18 ins., XXX, 3-yr.	.50
Juniperus horizontalis glauca, 10 to 15 ins., XX, 3-yr.	.35
Juniper, Irish, 8 to 12 ins., XX, 2-yr.	.25
Juniper, Irish, 12 to 18 ins., XX, 3-yr.	.40
Juniperus stricta, 8 to 12 ins., XX, 3-yr.	.50
Koeleruteria paniculata, 10 to 15 ins., 2-yr.	.18
Larix europaea, 12 to 24 ins.	.18
Leucothoe catesbaei, 6 to 10 ins., XX, 3-yr.	.35
Leucothoe catesbaei, 10 to 15 ins., XX, 3-yr.	.50
Picea excelsa, 4 to 10 ins., 2-yr.	.12
Pieris japonica, 8 to 12 ins., XXX, 3-yr.	.65
Pieris japonica, 12 to 15 ins., XXX, 4-yr.	1.00
Pieris japonica, 15 to 18 ins., XXX, 4-yr.	1.35
Pieris japonica, 18 to 24 ins., XXX, 4-yr.	1.90
(B&B on pieris japonica, add 25c ea.)	
Pinus mughus, 2 to 8 ins., 2-yr., adlg.	.08
Pinus mughus, 3 to 6 ins., 3-yr., X.	.15
Pinus nigra, 6 to 10 ins., 2-yr.	.15
Pinus sylvestris, 4 to 8 ins., 2-yr.	.10
Pinus strobus, 4 to 8 ins., 2-yr.	.10
Pyracantha lalandi, 6 to 12 ins., X, 2-yr.	.20
Quercus palustris, 12 to 24 ins., 2-yr.	.15
Rhododendron hybrids (Seedling-grown, from select red stock)	
Rhododendron hybrid, 8 to 12 ins., XXX, 3-yr.	.85
Rhododendron hybrid, 12 to 15 ins., XXX, 4-yr.	1.50
Rhododendron hybrid, 15 to 18 ins., XXX, 4-yr.	2.25
Rhododendron hybrid, 18 to 24 ins., XXX, 4-yr.	3.00
(B&B on rhododendrons, add 25c each.)	
Rhododendrons, named varieties:	
18 to 24 ins., B&B, \$5.00 ea.; 24 to 30 ins., R&B, \$6.50 ea.	
Dr. Dresselhuys, red	Godman, red
Ignatius Sargent, red	Rosea Elegans, deep pink
Caractacus, red	Rutgers, red
Taxus capitata, 6 to 8 ins., XX, 2-yr.	.25
Taxus capitata, 8 to 12 ins., XX, 3-yr.	.35
Taxus capitata, 24 to 30 ins., B&B.	4.50
Taxus capitata, 30 to 36 ins., B&B.	6.00
Taxus cuspidata, 6 to 10 ins., XX, 2-yr.	.25
Taxus cuspidata, 10 to 15 ins., XX, 3-yr.	.35
Thuja occidentalis, adlg., 4 to 6 ins., 2-yr.	.10
Thuja occidentalis, 6 to 12 ins., XX, 3-yr.	.20
Thuja oec. elegantissima lutea, 6 to 8 ins., XX, 2-yr.	.25
Thuja oec. elegantissima lutea, 8 to 12 ins., XX, 3-yr.	.35
Thuja oec. globosa nana, 4 to 6 ins., XX, 2-yr.	.25
Thuja oec. plicata, 6 to 12 ins., XX, 3-yr.	.35
Thuja orientalis, 6 to 10 ins., adlg., 2-yr.	.10
Thuja orientalis, 10 to 15 ins., X, 3-yr.	.18
Tsuga canadensis, 8 to 12 ins., XX, 3-yr.	.25
Tsuga canadensis, 18 to 24 ins., B&B.	2.00
Tsuga canadensis, 2 to 3 ft., B&B.	2.90
Tsuga canadensis, 3 to 4 ft., B&B.	3.90
Viburnum opulus, 12 to 24 ins., 2-yr.	.18

Please order in accordance with our above terms. No Sunday business.

PALLACK BROS. NURSERIES, Inc.

(On Highway 19, 31 mi. north of Pittsburgh, Pa.)

PHONE: ZELIENOPLE, 476-J 21

R.F.D. 1, HARMONY, PA.

TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

Then the trumpet creeper's dark red, tubular flowers, with orange throats, are most conspicuous. Incidentally, there is a hybrid between this species and the Chinese trumpet creeper, *C. chinensis*, with flowers about the same length, three inches, but almost twice as broad, two inches.

It is doubtful if any other country in the world possesses such a thoroughly beautiful vine as we have in bittersweet, *Celastrus scandens*, and holds it out of general cultivation as we do. The argument has been advanced that bittersweet has been so plentiful in the wild that we have not needed to cultivate it. That seems to me, however, to be a subterfuge to cover up our laziness or lack of ambition to grow any plant that needs treatment a little out of the ordinary. Bittersweet is not a difficult plant, but it cannot be transplanted with any degree of safety after it has attained much size. That fact, and not its prevalence in a wild state, is probably the reason for our neglect of this twiner. It freely reproduces itself by means of suckers or by layering in the fall, and young plants may be moved without much trouble. In the nursery bittersweet should be grown in pots to insure safe moving at selling time.

It is not an especially conspicuous plant when in flower, though the greenish-white leaves, growing up to four inches in length, are always attractive. Its crowning glory is its showy, orange-yellow fruit, with crimson arils.

I should like to include one more native vine, the clambering monkshood, *Aconitum uncinatum*. For the lover of blue flowers who is, at the same time, looking for a climbing plant to run over a shrub or something similar, this plant holds special value. It will cling to any suitable support, such as shrubs or young trees, and it grows as high as five feet and produces bright blue, helmetlike flowers in loose panicles from June until late August. It grows in low, moist ground in its natural state, but it does well in the garden in full sun if given sufficient moisture. It is native from Pennsylvania to Wisconsin and southward; so material from the northern part of its range should be hardy enough for most sections of the country.

Iris Flavissima.

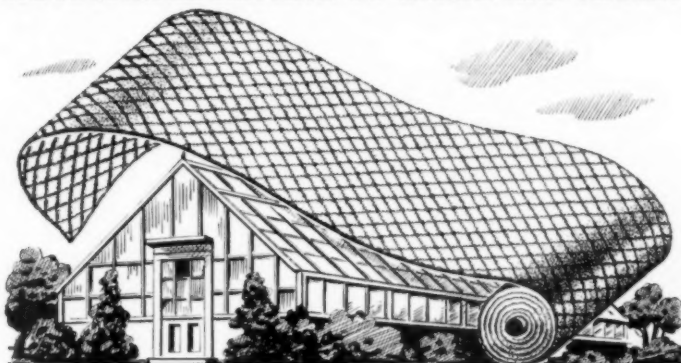
An eastern friend writes in part as follows: "I have been having trouble with *Iris flavissima* and hope you can help me."

The name in itself confuses one. I

[Continued on page 63.]

NEW LOW PRICES ON ARMY CAMOUFLAGE NETTING—THE ORIGINAL CAM-SHADE. SUN - HAIL - FROST AND WINDBREAK PROTECTION.

THAT BROILING HOT SUN WILL SPOT THOSE TENDER PLANTS AND SEED-
LINGS SOONER THAN YOU THINK. BE PREPARED FOR THAT HOT WAR ON
PLANTS AND SEEDLINGS IN FIELD BEDS OR GREENHOUSES BY ORDERING
CAM-SHADE CAMOUFLAGE NETTING TO SHADE AND PROTECT THEM.



CAM-SHADE will shade your plants and can be used as FROST PROTECTION or
used as WINDBREAK and HAIL PROTECTION. CAM-SHADE can also be used
to cover the glass on greenhouses instead of spraying with costly spray material
plus cost of labor. Yoder Bros., of Barberton, Ohio, used over 40,000 yards of
CAM-SHADE to cover greenhouse Ranges and found this lowered the temperature
considerably.

CAM-SHADE LASTS UP TO 5 OR 6 YEARS; your expense in one year for spray-
ing will pay for CAM-SHADE.

CAM-SHADE ALSO IS USED TO COVER LATH HOUSES. Instead of expensive
wooden lath construction, a lath house can be made very cheaply by using 6-inch
poles and No. 8 wire for supports, covering both tops and sides with CAM-SHADE.
This makes for perfect shade and also acts as a windbreak. CAM-SHADE costs
only 9 1/2c per square yard.

Sizes and prices listed below:

			Prices
22 x 22 ft.	53 7/9 sq. yds., at 9 1/2c		\$ 5.11
29 x 29 ft.	93 4/9 sq. yds., at 9 1/2c		8.88
36 x 44 ft.	176 sq. yds., at 9 1/2c		16.72
45 x 45 ft.	225 sq. yds., at 9 1/2c		21.38

On less than minimum order of 4 pieces, there is an additional charge of \$2.00 for
handling.

SEND THAT ORDER TODAY.

WE HAVE FIVE SECTIONAL WAREHOUSES TO SAVE ON SHIPPING CHARGES.

AMERICAN ASSOCIATED COMPANIES

X. S. SMITH, REP. IN CHARGE OF FLORIST TEXTILE DIV.

Box 272

RED BANK, N. J.

Coming Events

MEETING CALENDAR.

September 22 and 23, nursery division of Louisiana State Horticultural Association, Agricultural Coliseum, Lafayette.

September 25 to 28, American Institute of Park Executives, Baker hotel, Dallas, Tex.

September 28 and 29, diamond anniversary, Connecticut agricultural experiment station, New Haven.

September 30 to October 3, American Rose Society, Shoreham hotel, Washington, D. C.

October 6 to 8, Texas Rose Festival, Tyler.

October 22 and 23, trade fair and design school, Florida State Florists' and Nurserymen's Association, Orange Court hotel, Orlando.

October 26 to 28, American Horticultural Council, Hotel Olds, Lansing, Mich.

December 4 and 5, Minnesota State Nurserymen's Association, Dyckman hotel, Minneapolis.

January 3 to 17, 1951, short course for landscape nurserymen, Virginia Polytechnic Institute, Blacksburg.

January 9 and 10, Western Association of Nurserymen, Jefferson hotel, St. Louis, Mo.

January 15 to 18, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 25 and 26, Ohio Nurserymen's Association, Neil House, Columbus.

LOUISIANA PLANS.

Dr. Joel L. Fletcher, president of Southwestern Louisiana Institute, Lafayette, will welcome Louisiana nurserymen when they assemble at the Agricultural Coliseum on the campus to attend the convention sponsored September 22 and 23 by the Louisiana State Horticultural Association.

Friday night the Southwestern Louisiana Nurserymen's Association will give a Cajun shrimp boil party, with a Cajun band providing the music. Ronald Gains, E. Morton and Mrs. Joseph Vallot are in charge of the party. After the party a film, "A Year in the Nursery," will be shown through the courtesy of Mount Arbor Nurseries, Shenandoah, Ia. Dr. James Foret, horticulturist at the institute, will be the narrator.

Saturday morning's session will open with a discussion about potential sales of potted plants. In the afternoon Prof. I. S. Nelson, from the institute, will direct a panel discussion. The remaining time will be devoted to a demonstration of irrigation equipment, by H. K. Riley, head of the department of plant industry at the institute. Climaxing the program will be a banquet and

a dance Saturday night. At the banquet the nurserymen will pay tribute to a person who has done outstanding work in the industry during the past year: at last year's convention, Edward Teas, Teas Nursery Co., Houston, was honored.

Fritz Huber, Jennings, is president of the Southwestern Louisiana Nurserymen's Association. Glenn D. Baker, Youngsville, is vice-president, and Joseph M. Vallot, Jr., Youngsville, secretary-treasurer.

FLORIDA MEETING PLANS.

The dates of October 22 and 23 have been definitely set for the trade meeting and design school of the Florida State Florists' and Nurserymen's Association, at the Orange Court hotel, Orlando, according to M. J. Dactwyler, general chairman.

The nurserymen's group will hold an informal session Sunday evening, with President E. Tinsley Halter presiding. Subjects pertaining to the nursery industry will be discussed, and Harry M. Smith will act as moderator.

T. David Kaden, head of the florists' group, has not announced the program of the design school, but his tentative plans include having a well known commentator and a staff of competent designers. Special emphasis will be placed on Christmas decorations.

LILACS

On own roots.

Large plants, 5 ft. and up.

Charles X. William Robinson,
Pres. Grevy, Leon Gambetta, etc.

To plant now

AMERICAN ARBORVITAE, 10 ft.

An assortment of heavy stock
for landscaping.

RED LAKE RED CURRANTS, 2-yr. No. 1

SAMUEL FRASER NURSERY
GENESEO, N. Y.

**QUALITY MERCHANDISE
AT REASONABLE PRICES**

**VANDEBROOK
NURSERIES**

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

AMERICAN NURSERYMAN

Displays of nursery stock and non-perishable items will be shown in the large garden west of the hotel, while florists' and nursery supplies will be inside the hotel. Extensive interest shown in the display space at the present time assures the association of a larger stock exhibit than the one presented at last year's trade meeting.

Hibiscus flowers will reach their best size and color by October, and many of the hibiscus growers will take space to introduce their new varieties and to sell the more commonly known ones.

Exhibitors may reserve space by contacting M. J. Dactwyler, Dactwyler Nurseries, Route 1, Box 50, Orlando.

ROSE SOCIETY TO MEET.

The American Rose Society will hold its annual meeting September 30 to October 3 at the Shoreham hotel, Washington, D. C., with the Potomac Rose Society as host. Room reservations should be made directly with the hotel. Registrations should be mailed to A. C. Barrett, registration chairman, 4719 Brandywine street, northwest, Washington 16, D. C.

Specimen rose blooms and arrangements will be exhibited in the foyer of the U. S. National Museum, September 30 and October 1. A schedule may be obtained by writing

EVERGREENS

Northern-grown
CANADIAN HEMLOCK
AMERICAN ARBORVITAE
BALSAM FIR

Per 100 Per 1000

2 to 4 ins., sdgls.	\$ 0.80	\$ 5.00
3 to 6 ins., sdgls.	1.50	10.00
* 6 to 9 ins., sdgls.	2.50	15.00
* 9 to 12 ins., sdgls.	6.00	40.00
* 12 to 18 ins., sdgls.	8.00	65.00
* 18 to 24 ins., sdgls.	20.00	

* Limited quantity of Arborvitae.

Freshly collected, Well rooted, Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

WILLIAM CROSBY HORSFORD
Charlotte, Vermont

"A friendly, efficient sales service"

E. D. ROBINSON
SALES AGENCY
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WALLINGFORD, CONN.

Representing

Adams Nursery, Inc.
Bristol Nurseries, Inc.
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North-Eastern Forestry Co., Inc.
A. N. Pierson, Inc.

A complete line of well grown hardy plant material
Evergreens and Lining-out Stock



PACIFIC COAST NURSERY

J. Holmason & Sons

2244 N. Skidmore Court

Portland, Oregon

Dear Fellow Nurserymen:

You will recognize me from the accompanying picture as the Pioneer Fruit Tree Seedling Grower on the Pacific Coast.

I thought my nursery friends would be interested to know that I left Portland September 3 by plane for Yellowknife, N.W.T., Canada, where I have an interest in a rich uranium mine, and I am one of the ten directors of this mine. The mine is 142 miles south of the Arctic Circle.

After working so hard practically all of my life, it seems nice to relax a little from business and take a trip into the far north and enjoy the quietness and beauty of God's great outdoors.

The way God has blessed me in my old age is more than I deserve or will ever understand. The sad part is that now that I can take it easy and enjoy the fruits of my hard labor, old age is just around the corner.

Remember, my fellow nurserymen, that I still could call myself Johnnie Appleseed the second, for in 1914 with five pounds of apple seeds I made my start in the seedling business.

So far, I am in the lead in my line of business with my two sons, Martin and J. P. Holmason. They have been with me in the business of growing seedlings all of their lives, and they are now relieving me of a lot of responsibility. I do not mean to be bragging about my boys, but they are experts in the growing of seedlings.

I do not want to give the boys and myself all the credit for our success, because the help my good wife has been to us cannot be underestimated. Her work in the office and in many ways connected with the business has been a great help and inspiration to me. The hardships we had to go through in the past are over, but my wife and I intend to stay with the ship for some time to come. I believe that if I would quit, I wouldn't last long.

If any of you nurserymen are coming to the Coast this Fall, we want you without fail to visit our Portland nursery, as well as our nursery at Sunnyside, Wash., and after you have, I am sure that you will agree with everything I have said.

If you haven't dealt with us in the past we will appreciate an order from you and we will guarantee you 100 per cent satisfaction with any variety of seedlings you buy from us.

I consider every nurseryman a friend whether you deal with me or not.

Kindest regards to you all,

John Holmason,
Pacific Coast Nursery

**They're going to buy them
somewhere... why not
from you!**

Feature

VIGORO*, End-o-Pest and End-o-Weed in your catalog!

Vigoro is without doubt "the best known name in the entire gardening field." So why not cash in on this unique situation and tie in with the powerful advertising behind Vigoro? Display Vigoro prominently — merchandise it — advertise it in your catalog. Include End-o-Pest and End-o-Weed—the other two members of the Vigoro gardening line.

**You can easily make
three sales . . . three profits!**

* Vigoro is the trade-mark for Swift & Company's complete, balanced plant food

**3 great
gardening aids**

**End-o-Pest
VIGORO
End-o-Weed**

PRESENTED BY SWIFT & COMPANY
Plant Food Division, U. S. Yards, Chicago 9, Ill.

GERARD K. KLYN, Inc. **ROSE GROWERS** **MENTOR, OHIO**

Our Northern Ohio-grown Roses are without equal. Carefully handled from planting to shipping. See our fields and be convinced. Ask for our list of popular varieties, ready for shipment about November 1.

CLEARFIELD BITUMINOUS COAL CORP.
Department of Forests **Indiana, Indiana County, Pa.**
Growers of Quality Evergreen Seedlings and Transplants
for over 25 Years.
Write for Price List and Planting Guide.

Lieut. Col. R. K. Windham, 4885 Edgemoor lane, Bethesda, Md.

On Saturday, September 30, registration will be followed by a bus tour of Arlington cemetery and a garden tour. Other sight-seeing tours will be featured on Sunday, and a buffet supper will be served in the Terrace room at the Shoreham. Included on the program Monday night will be a talk on "Early Originations of Roses in the Potomac Area," by B. Y. Morrison. Robert Pyle will have as his subject "Rose Pictures from Europe in Word and Color."

On Tuesday, there will be a tour of the U. S. D. A. experiment station at Beltsville, Md. Dr. F. P. Cullinan, assistant chief of the bureau of plant industry, soils and agricultural engineering, will discuss the "Research Program at the Plant Industry Station." Other speakers and their subjects include Dr. W. D. McClellan, "Recent Developments in Rose Diseases and Their Control"; Dr. Philip Brierley, "Virus Diseases of Roses"; Dr. Floyd Smith, "Recent Developments in Insecticides for Roses"; Dr. Neil W. Stuart, "Fertilizers for Roses," and Dr. S. L. Emsweller, "Problems of the Rose Breeder." The group then will tour the Potomac Rose Society's test garden and local home gardens. A banquet will be held at 7 p. m., with the Hon. Norman J. O. Makin, ambassador from Australia, giving the main address.

A tour has been arranged for Wednesday and Thursday for those who wish to participate. Among the places to be visited will be the rose gardens of the Conard-Pyle Co., West Grove, Pa.; the Du Pont-Longwood Gardens, Kennett Square; the Hershey rose garden; Breeze Hill, the garden established by Dr. J. H. McFarland; the headquarters of the American Rose Society, and Gettysburg and Frederick, Md.

MINNESOTA DATES.

R. N. Ruedlinger, secretary, has announced that the winter meeting of the Minnesota State Nurserymen's Association will be held December 4 and 5 at the Dyckman hotel, Minneapolis. Vernie Johnson, vice-president of Jewell Nurseries, Inc., Lake City, is chairman of the program.

VIRGINIA LANDSCAPE COURSE CHANGED.

Originally set for the last two weeks of January, 1951, the short course for landscape nurserymen has

SHEARED SPECIMEN EVERGREENS FOR FALL DELIVERY

We have had an exceptionally good growing season and have some extra-nice stock to offer this fall. Our digging season has already started. We extend you a cordial invitation to come and inspect this stock.

BALLED AND BURLAPPED—THREE TIMES TRANSPLANTED

Fir, Douglas,	Per 100	Juniperus Virginiana Canaerti,	Per 100	Taxus Cuspidata Capitata,	Per 100
18 to 24 ins.	\$200.00	3 to 4 ft.	\$450.00	18 to 24 ins.	\$400.00
2 to 3 ft.	225.00	4 to 5 ft.	550.00	24 to 30 ins.	500.00
3 to 4 ft.	300.00	Juniperus Virginiana Glauca,		30 to 36 ins.	800.00
Juniperus Chin. Columnaris Glauca,		3 to 4 ft.	450.00	Taxus Media Hatfieldi,	
blue,		4 to 5 ft.	550.00	15 to 18 ins.	325.00
3 to 4 ft.	450.00	Juniperus Virginiana Dundee,		18 to 24 ins.	375.00
4 to 5 ft.	550.00	3 to 4 ft.	450.00	24 to 30 ins.	450.00
Juniperus Chinensis, green,		4 to 5 ft.	550.00	Taxus Media Hicksi,	
3 to 4 ft.	400.00	Picea Canadensis,		18 to 24 ins.	350.00
4 to 5 ft.	450.00	24 to 30 ins.	200.00	24 to 30 ins.	400.00
5 to 6 ft.	500.00	30 to 36 ins.	250.00	30 to 36 ins.	500.00
Juniperus Chinensis Pfitzeriana,		Picea Canadensis Albertiana,		36 to 42 ins.	600.00
15 to 18-in. spread.	225.00	18 to 24 ins.	150.00	Thuja Occid. Columbia	
18 to 24-in. spread.	325.00	Picea Excelsa,		(variegated foliage),	
24 to 30-in. spread.	375.00	18 to 24 ins.	125.00	18 to 24 ins.	175.00
Juniper, Andorra,		24 to 30 ins.	175.00	24 to 30 ins.	225.00
15 to 18 ins.	200.00	30 to 36 ins.	225.00	30 to 36 ins.	250.00
18 to 24 ins.	275.00	3 to 4 ft.	300.00	Thuja Occid. Douglasi (Pyramidal),	
Juniper, Irish,		Picea Pungens (Colorado Green),		30 to 36 ins.	200.00
2 to 3 ft.	175.00	18 to 24 ins.	175.00	3 to 4 ft.	250.00
3 to 4 ft.	200.00	24 to 30 ins.	225.00	4 to 5 ft.	300.00
Juniperus Comm. Hibernica		30 to 36 ins.	300.00	Thuja Occid. Globosa,	
Fastigiata,		Picea Pungens Glauca		15 to 18 ins.	175.00
2 to 3 ft.	175.00	(Colorado Blue),		Thuja Occid. Pyramidalis,	
3 to 4 ft.	225.00	18 to 24 ins.	350.00	24 to 30 ins.	200.00
Juniperus Excelsa Stricta,		24 to 30 ins.	400.00	30 to 36 ins.	250.00
15 to 18 ins.	175.00	Retinospora Plumosa and		36 to 42 ins.	325.00
18 to 24 ins.	200.00	Plumosa Aurea,		Thuja Orientalis Aurea Nana	
24 to 30 ins.	225.00	18 to 24 ins.	100.00	(Berckmans Golden),	
30 to 36 ins.	275.00	24 to 30 ins.	125.00	15 to 18 ins.	175.00
Juniperus Glauca Hetzi		30 to 36 ins.	150.00	18 to 24 ins.	225.00
(Silver Spreading),		Taxus Cuspidata,		24 to 30 ins.	275.00
15 to 18 ins.	225.00	15 to 18 ins.	300.00	Thuja Bakeri,	
18 to 24 ins.	325.00	18 to 24 ins.	400.00	30 to 36 ins.	225.00
Juniperus Sabina		Taxus Cuspidata, globe type,		3 to 4 ft.	250.00
15 to 18 ins.	175.00	15 to 18 ins.	300.00	Thuja Newarki,	
18 to 24 ins.	250.00	18 to 24 ins.	375.00	18 to 24 ins.	175.00
24 to 30 ins.	300.00	Taxus Cuspidata Brevifolia,		24 to 30 ins.	200.00
Juniperus Virginiana Burki,		12 to 15 ins.	250.00	30 to 36 ins.	250.00
3 to 4 ft.	450.00	15 to 18 ins.	300.00	36 to 42 ins.	300.00
4 to 5 ft.	550.00				

Contact us for special prices in carload lots.

Write for complete list containing Fruit Trees, Shade Trees, Shrubs, Roses and Lining-out Stock.

ONARGA NURSERY CO.

ONARGA, ILLINOIS

been changed to January 3 to 17 at the suggestion of the educational committee of the Virginia Nurserymen's Association. The course is held at Virginia Polytechnic Institute, Blacksburg.

FORMERLY at De Soto, Mo., where he operated a florists' business and landscape service, C. H. Tibbitts is now located at 721 Mississippi street, Crystal City, Mo.

FIRST prize in the industrial-gardening contest at Louisville, Ky., which is sponsored annually by the city's beautification league, went to the Buckeye Oil Co. The September 3 edition of the Courier-Journal carried an illustrated story on the competition by Mary Louis Speed, local landscape architect. Second prize went to the Ford Motor Co. and third to the Coca-Cola Bottling Co.

QUEEN O' the LAKES

(New Red)

and 30 other fragrant

SUB-ZERO HYBRID TEAS

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense.

Also 20

Yellow and Orange Climbers
Write for trade prices to

BROWNELL ROSES
LITTLE COMPTON, R. I.



BURR

Leading wholesale source for
Nursery Stock

Send us your Want List.

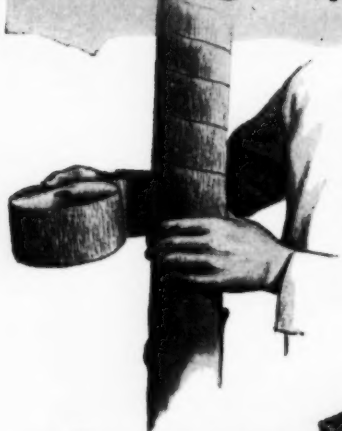
C. R. BURR & CO., INC.
Manchester, Conn.

HYBRID RHODODENDRONS—AZALEAS OUR SPECIALTY

Price list available on request.

HICKORY HILL NURSERY
Route 25 A, Fort Salonga
NORTHPORT, L. I., N. Y.

Protect your TREES with CHASE Spiral Tree Wrap



Both Tree Wrap and Nursery Squares made from crinkled kraft paper, laminated with asphalt. Special Wrap comes in easy-to-handle rolls, in varying widths. Protects against sun scald, severe frost, rodents, and abrasions. Maintains moisture content of bark.

CHASE DUPLEX NURSERY SQUARES

Have many protective uses. Come in wide variety of ready-cut sheet sizes to save you time and labor.



Mail
this Coupon
TODAY!

Chase Bag Co.
309 W. Jackson Blvd., Chicago 6, Illinois

Gentlemen:

Please send me more information about

- ☐ Chase Duplex Tree Wrap
- ☐ Chase Nursery Squares
- ☐ Please have salesman call

Name.....

Address.....

.....

CHASE BAG CO.

General Sales Office: 309 W. Jackson Blvd., Chicago 6, Illinois
Branches Located Coast to Coast

HEMLOCK

Rhododendron — Kalmia
Azalea

CURTIS NURSERIES
CALICOON, N. Y.

LINING-OUT STOCK

Our new Fall, 1950, price list will be ready for distribution October 15. If you are interested in any special items, send us your list NOW.

THOMAS B. MEEHAN CO., Inc.
DRESHER, PA.

PRINCETON NURSERIES

Headquarters for Quality
Ornamental Stock

Send us your want list.

PRINCETON NURSERIES
Princeton, New Jersey
Phone: Princeton 1776



Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

W. - T. Smith Corporation
Telephone 2689 GENEVA, N. Y.

OHIO SUMMER MEETING.

One hundred and thirty members attended the summer meeting of the Ohio Nurserymen's Association at the Miami hotel, Dayton, September 5. Hosts were the Berryhill Nursery Co., Springfield; Burton's Hilltop Nurseries, Casstown; Bohlender Nurseries Co., Tipp City; W. N. Scarff's Sons, New Carlisle, and the Siebenthaler Co., Dayton.

President Bret Slemmons, Slemmons Gardens, Worthing, presided at a business session of the executive committee. Four new members were accepted, and Francis Turner, of the Berryhill Nursery Co., was elected secretary-treasurer, succeeding John Siebenthaler.

A review of the research program instigated by the association showed that satisfactory progress was being made and the quota of the necessary funds has been reached by subscription. It was voted to take a membership in the Association of Nursery Association Secretaries.

At the request of Dean L. L. Rum-mell, director of the Ohio agricultural experiment station, at Wooster, the association voted to plan and provide the plant material needed for properly landscaping the site of the new horticulture building that will be known as Gourley Hall.

A letter was read from the Deshler-Wallick hotel and the Columbus convention bureau asking the association to cooperate in having the American Association of Nurserymen recognize Columbus' invitation to hold its 1953 convention at Columbus. The matter was referred for further consideration at the January meeting at Columbus, which will be held at the Neil House, January 25 and 26.

Following a cocktail hour, everyone enjoyed the buffet supper that was served. Two sound films, "Fishing in Ohio" and "Your Land," were presented by the state conservation department. Some nurserymen remained to play cards and to visit until late in the evening.

At 9:30 Friday morning, everyone was driven to Old River park, a tract of more than 300 acres of land that is operated by the National Cash Register Co. for the pleasure and recreational privileges of its employees. Following this tour, the group motored to Carillon park to be shown the new project opened June 3 by Col. Edward A. Deeds, chairman of the board of the National Cash Register Co. At this site Colonel Deeds has developed an institution similar to Henry Ford's Greenfield Village, near Detroit, Mich. Several fine

DELIVERED PRICES—COLLECTED NATIVE CLUMPS

Pittsburgh, Cleveland, Philadelphia, New York, Washington and Baltimore areas

	Not Burlapped	B&B
	Rhododendron	Azaleas
	Maximum	Nudiflora
		Calendulacea
1 to 2 ft.	\$1.50	\$1.85
2 to 3 ft.	2.25	2.25
3 to 4 ft.	3.00	2.75
4 to 5 ft.	4.25	3.50
5 to 6 ft.	5.50	4.00

Our F.O.B. wholesale list prices, plus delivery, are usually less than these guaranteed delivery prices. This presentation is made only because the truckers get their business on this basis and at these, or higher, prices in many cases.

Eighty per cent of our volume is nursery-grown, which is as it should be, as we see it. However, for nearly fifty years we have also been collectors of native plants. We started in our Pennsylvania mountains and in 1908 moved to the Virginias and North Carolina for virgin areas.

Even now we are locating new fields and supplying a discriminating trade. Literally hundreds of truckers, many in the peddling category, have invaded the field during these last few years of abnormal demand. We open up an area and before too long we are followed, and after taking the cream move on. It is quite a game these days, but we still lead the pack, and it is our intention to keep that position.

We do not advocate or recommend collected Rhododendron catawbiense, Rhododendron carolinianum or Pieris floribunda. These varieties shock badly and are generally unsatisfactory for several years after. However, if you use them, we can furnish as good as can be secured and will be glad to quote.

We continue to offer a proper product at a competitive price and the services of the largest experienced organization.

LABARS' RHODODENDRON NURSERY

Stroudsburg, Pa.

American Association of Nurserymen
Eastern Nurserymen's Association

Members of:

Pa., W. Va., and N. C. State Nursery Associations
North Jersey Metropolitan Nurserymen's Association

Branch Nurseries at
White Sulphur Springs, W. Va.
and Jonas Ridge, N. C.

buildings house various stages in the development of transportation, including a part of the original Miami and Erie canal construction, stage-coaches, early Baltimore & Ohio Railroad Co. locomotives, the barn and equipment used in the development of the self-starter for automobiles, the Wright brothers' second airplane and many other things of historical interest.

About noon more than 150 nurserymen arrived at the Moraine nursery of Siebenthaler Co., where they toured the nursery in groups of twenty, each of which rode on farm wagons drawn by tractors. A dinner of roast beef, fried fish and other good food was served family style in the large tobacco barn, because inclement weather made eating outdoors prohibitive. The afternoon was devoted to entertainment features and visiting. Many of the out-of-town members visited the Miami valley nurseries on their way to Dayton or after the meeting.

John D. Siebenthaler, Sec'y.

AFTER September 15 the address of A. Waldbart & Sons Nursery Co. will be Route 3, Box 239, Florissant, Mo. The old address was St. Louis 20, Mo.

NORTHERN-GROWN LINING-OUT STOCK

Betula papyrifera	Per 100	Per 1000
1 to 2 ft.	\$ 6.00	\$50.00
2 to 3 ft.	8.00	70.00
3 to 4 ft.	25.00	250.00
4 to 6 ft.	40.00	400.00
Clethra alnifolia		
6 to 18 ins.	6.00	50.00
Hex verticillata		
1 to 2 ft.	6.00	50.00
Syringa vulgaris		
1 to 2 ft.	6.00	50.00
Viburnum cerasioides		
1 to 2 ft.	6.00	50.00

EVERGREENS

Abies balsamea		
4 to 8 ins.	4.00	25.00
8 to 12 ins.	8.00	60.00
Thuja occidentalis		
6 to 9 ins.	4.00	25.00
6 to 12 ins.	5.00	40.00
Tsuga canadensis		
4 to 8 ins.	4.00	25.00
8 to 12 ins.	5.00	40.00

HEMLOCK TRANSPLANTS

Tsuga canadensis		
4 to 8 ins., 1-yr. tr.	12.00	100.00
8 to 12 ins., 2-yr. tr.	18.00	160.00

The above stock is first-quality collected lining-out stock, except as otherwise noted. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

P. O. Box 352
Exeter, New Hampshire

EVERGREENS

Seedlings and Transplants
For Fall, 1950, and Spring, 1951
Write for price list.

SUNCREST EVERGREEN NURSERIES
JOHNSTOWN, PA.

TAXUS

Quality stock with J. B. certificate; in carload or truck-load lots.

TAXUS capitata, 2 1/2 to 8 ft.

TAXUS cuspidata,
1 1/2 to 4 ft.

TAXUS nana and
intermedia, 1 to 3 ft.

TAXUS hicksi and hatfieldi,
2 to 4 ft.

Also

TAXUS capitata liners,
3 to 4 yrs., 1 to 2 ft.

BULK'S NURSERIES

Babylon, L. I., N. Y.

CLEMATIS and ORNAMENTAL VINES

Write for list.

JAMES I. GEORGE & SON

Growers
FAIRPORT, N. Y.

READY FOR FALL

AZALEAS

<i>Hinodegiri, Amoena, Ledifolia Alba.</i>	Each
Fine, compact, well sheared, healthy plants.	
10 ins.	\$1.25
12 ins.	1.50
15 ins.	1.75
18 ins.	2.00
21 ins.	2.25

SPINY GREEK JUNIPER

<i>Juniperus Excelsa Stricta.</i>	
15 to 18 ins.	1.75
18 to 24 ins.	2.00
2 to 2½ ft.	2.25
2½ to 3 ft.	2.75

IRISH JUNIPER

<i>Juniperus Communis Hibernica.</i>	
2 to 2½ ft.	1.50
2½ to 3 ft.	2.00
3 to 3½ ft.	2.50
3½ to 4 ft.	3.00

RETINOSPORA (Chamaecyparis)

<i>Plumosa and Aurea.</i>	
18 to 24 ins.	1.50
2 to 2½ ft.	1.75
2½ to 3 ft.	2.25
3 to 3½ ft.	2.75
3½ to 4 ft.	3.50

AMERICAN ARBORVITAE

<i>Thuja Occidentalis (Heavy).</i>	
4 to 5 ft.	4.00

These plants are not stragglers or culls from old fields, but are nice, clean, beetle-free, compact, well sheared, young stock, grown by us for the wholesale trade. They are top-quality.

Your order will be freshly dug and balled in burlap. We maintain no storage cellars.

We invite you to visit our nursery for an inspection and comparison with other stock.

All prices quoted are F.O.B. our nursery. Terms are cash. Truck, C. & O. and N. Y. C. freight service available. We strongly advise truckload or carload lots. L.T.L. and L.C.L. shipments have been unsatisfactory and such should move by your truck to avoid delay and injury.

CONNER & AMOS, Inc.

Office:
129 Dutch Road
CHARLESTON, W. VA.
Phone: Charleston 3-1012

Nursery:
W. Va. Route 17,
6 miles east of
Winfield, W. Va.

GOOD DOUGLAS FIR

B&B—Many blues

2 to 2½ ft., \$2.50	3 to 4 ft., \$4.00
2½ to 3 ft., 3.00	4 to 5 ft., 4.75

ABIES BALSAMEA. 4 to 5 ft., \$4.25

PICEA ABIES and RUBRA. 2½ to 3 ft., \$2.00 3 to 4 ft., \$2.75

PINUS n. AUSTRIACA and RESINOSA 3 to 4 ft., \$3.25 4 to 5 ft., \$4.00

5 to 6 ft., 5.25 Very compact.

VIBURNUM BURKWOODI 3 to 4 ft., also B&B, \$5.50

In addition, small landscape sizes of *Tsuga Sieboldi*, *Abies concolor*, *Kalmia*, *Picea pungens glauca*.

Beetle certificate furnished.

Yule Tree Farm

AKELEY, Warren Co., PA.
On U. S. 62,
10 miles south of Jamestown, N. Y.
Phone Russell (Pa.) 2395

Send your truck.

WANTED

10,000 Abies veitchii, seedlings or transplants.

PACHYSANDRA

The ideal permanent ground cover plant for shady areas in all climates. Strong, well rooted, 1-yr.-old plants, \$3.75 per 100; \$35.00 per 1000; 5000 or more at \$32.50.

PEEKSKILL NURSERY SHRUB OAK, N. Y.

HARDY NATIVE EVERGREENS

Collected Stock

Canadian Hemlock, American
Arborvitae, Balsam Fir

Per 100 Per 1000

2 to 4 ins., sdgs.	\$0.80	\$ 5.00
3 to 6 ins., sdgs.	1.50	10.00
6 to 9 ins., sdgs.	2.50	15.00
9 to 12 ins.	6.00	40.00
12 to 18 ins.	8.00	65.00

All first-quality stock, well rooted and packed in sphagnum moss.

Send for trade list.

Cash, please.

R. M. COLE

Box 37

Charlotte, Vt.

LINERS

Ask for list.

BROUWER'S NURSERIES

Box 25 NEW LONDON, CONN.

MAHONING VALLEY GROUP.

A plan by which localities which are short of certain plant materials may draw upon possible surpluses of those nursery stocks in nearby areas is under study by the Mahoning Valley Landscape Gardeners' and Nurserymen's Association, which was formed a little more than a year ago in the Youngstown, O., district.

B. C. Smith, Ohio State University extension specialist in ornamental horticulture, who was the guest of the association at its annual nursery tour and banquet, assured the group of his cooperation and suggested that the state university might act as a clearinghouse for the project, once the plan is worked out.

As a means of making available any surpluses of plant material to localities having shortages in such items, it was suggested that lists of available stock and want lists might be exchanged by growers on a district basis and perhaps even on a state-wide basis.

The association also took up for future action the possible establishment of a more uniform system of sizing nursery stock.

Some thirty members visited four nurseries in the 5½-hour, 2-county inspection tour and wound up the day with a banquet at Barnett's near Salem, in Columbiana county. Nurseries visited were Terrace Gardens Co., Youngstown; Gwenn-Gary Nursery, Columbiana, and Wilms Nursery and Cope Bros. & Fultz Nursery, Inc., both at Salem. The members also visited the Harvey S. Firestone memorial, at Columbiana.

With President J. Paul Wilms presiding, the members heard B. C. Smith discuss various nursery and landscaping problems and experiments at the banquet.

The association will hold its September meeting at Gwenn-Gary Nursery, when landscape men, nurserymen and arborists from the New Castle, Pa., vicinity will be guests.

L. C. Flint.

BRECK'S OPENS NEW GARDEN CENTER.

A press preview of its new home and garden center in the Chestnut Hill section of Boston, Mass., was held September 11 by Breck's of Boston, and the public has been invited to the 3-day formal opening, September 14 to 16. Bulbs imported from Holland and displays of chrysanthemums were a feature of the opening.

Featuring an indoor conservatory

EVERGREENS FOR FALL

TAXUS CUSPIDATA—Japanese Spreading Yew. Well trimmed and bushy, root pruned and carefully balled.

15 to 18 ins., **\$2.75**; 18 to 24 ins., **\$4.00**; 2 to 2½ ft., **\$5.50** ea.

THUJA OCCIDENTALIS WOODWARDI—Woodward Arborvitae. Selected types, solid, round and beautiful. 10 to 12 ins., **95c**; 12 to 15 ins., **\$1.25**; 15 to 18 ins., **\$1.40**; 1½ to 2 ft., **\$2.25**; 2 to 2½ ft., **\$3.00** ea.

THUJA OCCIDENTALIS PYRAMIDALIS

Pyramidal Arborvitae

	Each
2 to 2½ ft.	\$2.40
2½ to 3 ft.	2.75
3 to 4 ft.	3.50
4 to 5 ft.	4.50
5 to 6 ft.	6.00
6 to 7 ft.	7.75

ILGENFRITZ NURSERIES, INC.

THE MONROE NURSERY · MONROE, MICH.

PEACHES ARE MOVING

As fine a crop of peach trees as we ever grew. The best in all standard varieties and all of the new, worth-while introductions.

	Each 1 to 29	Each 30 to 299	Each 300 up		Each 1 to 29	Each 30 to 299	Each 300 up
3/4-in.	\$0.70	\$0.65	\$0.60	7/16-in.	\$0.40	\$0.35	\$0.30
1 1/16-in.	.60	.55	.50	5/16-in.	.30	.25	.20
9/16-in.	.55	.50	.45				

ABOVE ARE ONLY A FEW — Send us your fall evergreen requirements and get our special quotations.

of plants, the new home and garden center is the result of over a year's planning by the Breck organization of over 200 persons, and it is the particular pride of Luther A. Breck, Jr., 38-year-old, fifth-generation president of the 133-year-old firm. The conservatory, which faces the Hammond Pond entrance to the store, has a 1,000 square foot glassed-in area. Inside the conservatory is a fountain pool that pours a stream of water from its wall. Plants grow about the pool and walls.

There is parking space for 500 cars. Customers who wish to telephone their orders or leave them in the morning on their way to work may pick up their purchases at the conservatory entrance on their way home in the evening.

Irving Haseltine, former assistant manager of Breck's Franklin street store, has been appointed manager of the new Chestnut Hill branch. The staff on hand to assist at the opening is composed of James Shiels, manager of the lawn and vegetable seed department; Gordon Stewart, horticulturist; David Boran, manager of the nursery department; Thomas Westwood, manager of the bulb and flower seed department, and John Russell and P. S. Van Baarde, of the private estate department.

20,000 GRAFTED JAPANESE MAPLES

Available this fall as 10 to 12 and 12 to 15-in., strong, bed-grown, 1-yr. liners. Orders dealt with in strict rotation.

Write for our new list.

KOSTER NURSERY
BRIDGETON, N. J.

QUALITY LINERS

Red-flowering Dogwood Per 100
6 to 10 ins., grafts (1-yr.) . . . **\$60.00**

Canadian Hemlock
5 to 12 ins., trans. (sheared) . . **17.50**

Magnolia S. Nigra (red)
8 to 15 ins., trans. (own-root) . **75.00**

Send for new Fall List

POSSUM HOLLOW NURSERIES
6327 Magnolia St.
PHILADELPHIA 44, PA.

A General Line of FRUIT and ORNAMENTAL TREES and PLANTS

BUNTINGS' NURSERIES, Inc.
Box 3 SELBYVILLE, DEL.



LINERS

WELL ESTABLISHED

List and prices
on request.

GRESHAM'S NURSERY
R. F. D. 9 RICHMOND 24, VA.

TRADE LIST IS READY NOW

It lists:

Evergreen Seedlings.
Evergreen Transplants.
Broad-leaved Evergreens, liners and finished.
Ornamentals, for lining out.
Evergreen Specimens, B&B.
Ornamental Shade Trees.
Deciduous Shrubs.
Hybrid Azaleas.
Hybrid Rhododendrons.

FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, Erie Co., PA.

Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS
Mrs. R. P. Royer High Point, N. C.

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

SANITATION.

Some of the nursery's spraying costs could be saved by the consistent practice of sanitary measures. This is also true for home flower gardens. By sanitation, one means the pruning, roguing or removal by hand and burning of infested nursery stock.

About fifteen years ago, we noticed a dozen plants infested with box leaf miner. This is a slow-spreading but persistent pest, and, as we grew considerable boxwood, such an infestation was serious for us. Instead of spraying with molasses and nicotine and taking the chance of obtaining a 100 per cent cure, we dug up all infested plants and burned them. Then we kept a close watch on the nearby plants for some time, but we have never found an infested leaf since.

There is a good proportion of plant fungi and insect pests that can be controlled by this method, and it is the wise nursery operator or foreman who, in his strolls around the plantings, keeps his eyes open for these unwelcome nuisances.

There is no real reason for the common bagworm to do serious damage in the nursery, although it often does. One has a full year to remove by hand the nice, fat bags before the 500 to 1,000 eggs in it are hatched. If that one bag is removed and just stepped on, it obviates both spraying and unsightly plants.

I have often seen customers damaging fine trees by burning out tent caterpillars; yet, at the first sign of a web, they can be killed easily by the pruning of as small a part of the tree as a leaf, or, at the most, a twig. The same is true of other caterpillars that travel in clusters, as the cankerworms.

In one class of diseases, the only treatment is by roguing. These are the virus diseases, such as stunt, yellows and mosaic. The almost instant recognition and destruction of plants infected with one of these diseases mean the saving of real money to nurserymen. But it also operates to our advantage to rogue certain plants infected with fungus diseases. Too often fungus diseases cause an epidemic, because a source of the disease has remained on the premises just waiting for a rainy season to spread the spores like wildfire. Fire blight, which is such a nuisance

on certain pears, fire thorns and apples, is best controlled by pruning out and burning the first infected twig.

Scale insects on such plants as lilacs are so difficult to kill by spraying that they are controlled better by pruning and burning that first infested twig.

When possible, it is also wise to burn flower parts, dead fruit and nuts that might carry a pest over until the next year.

The burning of the brush pile, that bane of the fruit tree nurseryman's existence, not only helps to remove his surplus trees, but also helps to keep down pests. It is more important in ornamental nurseries to burn up the last of a block, particularly when all that is left is the runts, the crooked, the sickly and the overgrown trees.

On old estates in this section there is considerable old English boxwood. Following an unfavorably cold winter or sometimes a bad drought, it is attacked by a serious fungus called wilt, which is characterized by pink spores on dead leaves and by the killing of any large branches and sometimes whole plants. Our experience and belief are that this disease can be completely prevented by sanitary measures. In old boxwood plants

the foliage becomes dense and there is a heavy accumulation of leaves on the twigs. This accumulation is sometimes so dense and moist that the twigs will actually initiate roots. If these plants are kept clean of this accumulation of leaves and if enough small twigs of live growth are broken out to allow for some light and air, these plants stay healthy. We know of one old hedge that has been kept in beautiful condition that way for more than twenty-five years. This hedge has never been sprayed.

In the nursery, one of the best pest destroyers is a pocketknife used at the right time. E. S. H.

A PLANT SUPERSTITION.

The osprey, or fish hawk, a large black and white bird, slightly smaller than an eagle, invariably builds its nest high in a large old tree close to the water. The nest is usually made up of sticks and light brush and averages about two feet in diameter and one foot high.

A great many persons, particularly those who have lived here on the Eastern Shore of Maryland for a long time, have told me that whenever the osprey builds its nest in a tree it kills the tree. Being unconvinced of this, I have asked them how, and the only answer I can get is the dripping of fish and salt water. Since fish are often made into fertilizers, I do not see how that could be. And since some of these trees are occasionally flooded by a high tide and the water in the upper Chesapeake

LINING-OUT STOCK

in wide assortment

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.



SURPLUS, Fall Only

100	Retinospora cyano viridis,	Per 100
	12 to 16-in.	\$125.00
100	Azalea kaempferi, 12-in.	100.00
40	Azalea mollis Queen Emma,	
	15 to 18-in.	225.00
75	Azalea mollis Director	
	Meerlands, 15 to 18-in.	225.00
40	Azalea mollis Chevalier	
	de Reali, 15 to 24-in.	250.00
40	Azalea pontica Gloria Mundi,	
	15 to 18-in.	225.00
40	Azalea pontica Daviesi,	
	15 to 18-in.	225.00
40	Azalea pontica Sang de	
	Gentbrugge, 15 to 18-in.	225.00
40	Azalea pontica Altaclarensae,	
	15 to 18 in.	250.00
100	Mahonia bealei, 3-yr. X.	75.00
100	Franklinia alatamaha,	
	10 to 14-in. X.	45.00
100	Hex crenata convexa,	
	15 to 18 ins., XXX.	200.00
500	Hex crenata convexa,	
	seedlings, X	15.00
100	Hemerocallis Theron	60.00
200	Epimedium	30.00
500	Taxus capitata, 4-yr. XX.	65.00
12	Cornus kousa, 3 to 10 ft.	\$8.00 each
25	Cotoneaster apiculata,	
	18 to 24-in.	2.00 each
25	Azalea schlippenbachii,	
	2 to 2 1/2 ft.	3.50 each

Cash with order.

BRIMFIELD GARDENS NURSERY
245 Brimfield Rd.
WETHERSFIELD, CONN.

SCARFF'S Nursery



Headquarters for Small Fruit Plants
SPECIAL for FALL PLANTING
— 100,000 —
TRANSPLANTED BERRY PLANTS
Safest for Fall Planting and
Customer Satisfaction

GAIN A YEAR *Get Some Fruit The First Season*

BLACK RASPBERRY, Transplants

Bristol, Logan, Morrison

SODUS PURPLE, Transplants

RED RASPBERRY, Transplants

Indian Summer, Latham, Sunrise

BLACKBERRY - LUCRETIA DEWBERRY

THORNLESS BOYSENBERRY

Send for complete Trade List of Fruits, Ornamental Shrubs, Vines and Evergreens.

W. N. SCARFF'S SONS, New Carlisle, Ohio



peake bay is not very salty, I further do not see how this belief could be true.

I have attempted to observe these nests over a number of years and it is my guess that the osprey selects a dying tree. The bird seems somehow to be able to tell which is a dying tree. A plantsman, of course, can tell by the extreme shortness of the annual growth. The favorite tree seems to be loblolly pine. The osprey usually returns to a tree for a number of years, but also seems to be able to tell when the tree has been dead long enough for there to be a danger that the tree will fall down.

The uncanny instinct and timing of these birds make it difficult to prove that it is just a superstition that the osprey kills a tree when it builds its nest in its branches.

E. S. H.

TACOMA NURSERIES, formerly known as the Tacoma Landscape Service, Saw Mill River road, Elmsford, N. Y., are owned by Sebastian Tacoma.

RECENTLY established by M. E. and Berenice Scrimger, Nicholson Nurseries, Lapeer, Mich., consists of six acres of outdoor stock and a 20x49-foot greenhouse.

HEAVY, BUSHY LINERS

Twice transplanted.

Taxus, Spreading	Each
9 to 12 ins., 4-yr.....	\$0.40
12 to 15 ins., 4-yr.....	.50

Taxus Nana Brevifolia, Taxus Vermeulen and Taxus Intermedia, Spreading.	
9 to 12 ins., 4-yr.....	.50
12 to 15 ins., 4-yr.....	.60

Hemlock, Canadian	
12 to 15 ins., 6-yr.....	.30
15 to 18 ins., 6-yr.....	.40

Minimum Quantity: Lots of 25.

100 assorted, your choice, 10 per cent discount; 250 assorted, 15 per cent discount.

Cash, please; packing free.

MOUNTAINVILLE FOREST NURSERIES

LEBANON, N. J.

Tel.: Califon 129 R 12

AZALEAS

Broad-leaved Evergreens and a general line of quality ornamentals.

THE TANKARD NURSERIES
 EXMORE, VA.

Ilex Bullata

A very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

Each	
4 to 6 ins., 2-yr., T.....	\$0.15
6 to 8 ins., 2-yr., T.....	.20

Pieris Japonica

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form, in graceful racemes for next spring's flowers. White lily of the valley like flowers appear with the first warm weather and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with azaleas and rhododendrons.

Each	
4 to 7 ins. T.....	\$0.15
7 to 9 ins. T.....	.20

Leucothoe Catesbaei

A good broad-leaved evergreen that grows in dense shade; lily of the valley like flowers, reddish-bronze foliage in winter. Contrasts well with azaleas and rhododendrons. Fine for flower arrangements. 6 to 8-in. T., 15¢ each. Can be transplanted now.

Send for list of other choice plants.

ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for

HARDY MUMS AND PHLOX.

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.

Lending Perennial Growers

HOLLAND, MICH.

SHADE TREES

Ash, American White,	Each	Per 10
6 to 8 ft.	\$2.25	\$20.00
8 to 10 ft.	2.75	25.00
10 to 12 ft.	3.50	32.50
Catalpa bungei, 5 to 6 ft.		
stems	2.25	20.00
Catalpa speciosa, 6 to 8 ft.	1.50	12.50
8 to 10 ft.	1.75	15.00
Elm, American,		
6 to 8 ft.	1.60	14.00
8 to 10 ft.	2.00	17.50
10 to 12 ft.	2.50	22.50
Elm, Chinese, 5 to 8 ft.	1.10	10.00
6 to 8 ft.	1.60	14.00
8 to 10 ft.	2.00	17.50
Flowering Crab, Eleyi,		
3 to 4 ft.	.75	6.50
4 to 6 ft.	1.00	9.00
Gum, Sour, 6 to 8 ft.	2.50	22.50
Hackberry,		
5 to 6 ft.	1.75	16.00
6 to 8 ft.	2.50	22.50
8 to 10 ft.	3.00	27.50
Linden, American, 8 to 10 ft.	3.00	27.50
10 to 12 ft.	4.00	37.50
Locust, Honey, 5 to 6 ft.	2.00	17.50
6 to 8 ft.	2.50	22.50
Maple, Norway, 5 to 6 ft.	1.75	15.00
Maple, Swedish, 5 to 6 ft.	2.75	25.00
6 to 8 ft.	3.75	35.00
Maple, Silver, 5 to 6 ft.	1.10	10.00
6 to 8 ft.	1.60	14.00
Oak, Willow and White,		
6 to 8 ft.	3.25	30.00
8 to 10 ft.	4.00	37.50
10 to 12 ft.	5.00	47.50
Plane Tree, Oriental,		
6 to 8 ft.	2.25	20.00
8 to 10 ft.	2.75	25.00
Poplar, Lombardy, 6 to 8 ft.	.85	7.50
8 to 10 ft.	1.20	10.00
Poplar, Boleana, 6 to 8 ft.	1.60	14.00
Texas Umbrella,		
3 to 4 ft.	.85	7.50
4 to 5 ft.	1.35	12.00
5 to 6 ft.	1.75	15.00

Write for prices on:

Azaleas Taxus cuspidata capitata
Boxwoods Taxus Hicksi
Hollies Rhododendrons
American Pyramidal Arborvitae
Globe Arborvitae

WAYNESBORO NURSERIES
WAYNESBORO, VIRGINIA

WANTED

Acer platanoides, 2 to 5-in. cal.
Acer rubrum, 2 to 5-in. cal.
Gleditsia triacanthos, 2 to 5-in. cal.
Platanus acerifolia, 2 to 5-in. cal.
Tilia platyphyllos, 2 to 5-in. cal.

FAULK-WHITE CO., Inc.
ALBERTSON, L. I., N. Y.

FOR 52 YEARS

*Our business has been
growing*

Rhododendrons
Azaleas
Perennials, Roses
All Nursery Items

BOBBINK & ATKINS
E. RUTHERFORD, N. J.

WANTED

Prices on 18 to 24, 24 to 30
and 30 to 36-in.

PYRAMIDAL ARBORVITAE

Your price list on all nursery stock.

L. E. STONE & CO., Inc.
P.O. Box 327 Lombard, Ill.

MICHIGAN CERTIFICATION OF STONE FRUITS.

To eliminate virus diseases of fruit stocks, certification of stone fruit nursery stock in the state of Michigan is directed toward improving all nursery practices regarding selecting and propagating. To help nurserymen accomplish this more easily, C. A. Boyer, Dean F. Lovitt and Donald Cation have cooperated in preparing a report on certification of stone fruits in Michigan, which the Michigan department of agriculture, Lansing, has published.

Indexing, or the use of a variety susceptible to virus diseases as a "guinea pig," is one of the best methods for recognizing many of these diseases. Numerous diseases may be completely masked on peach and sour cherry. Among those diseases poorly expressed on peach tests are the following diseases and their favorable hosts for indexing: For necrotic rusty mottle, use Napoleon and Bing cherries; mild rusty mottle, Napoleon and Bing cherries; rasp leaf, Napoleon and Bing cherries; twisted leaf, Napoleon cherry; black canker, Napoleon cherry only; rough bark, Kwanan and other flowering cherry varieties; standard prune mosaic, standard prune; apricot ring pox, Moorpark apricot; diamond canker, French prune only; pinto leaf, Napoleon cherry only; green ring mottle, Montmorency cherry only; line pattern, Shiro plum; plum white spot, Santa Rosa plum only; peach wart, Napoleon cherry; albino cherry, Napoleon cherry; mottle leaf, Napoleon cherry, and rugose mosaic, Napoleon cherry.

Nurserymen should plant and maintain their own parent trees of cherry and plum in a budwood orchard, where the trees can be periodically reindexed to determine their freedom from harmful viruses.

Besides using indexing procedures for eliminating certain latent or conditionally inconspicuous viruses, other procedures for certification include visual or field inspection of parent trees and surrounding trees, which is especially important for the peach yellows diseases where indexing has not been established satisfactorily. And therapeutic measures, such as heat treatment for the elimination of peach yellows viruses and the X disease virus, have proved beneficial.

Field inspection of parent trees and surrounding trees will eliminate diseased species, and it can supplement indexing in those cases where there is a more sensitive alternate

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host and where latent, unexpressed viruses cause trouble. Inspection should occur at the appropriate time for determining the virus diseases known to be in Michigan. Possible sources for contamination can also be checked at this time. Source peach trees must remain disease-free for two years after budwood selection before the resulting nursery trees may be sold under certificate. The certified trees may be increased by row-to-row budding as understock contamination does not occur.

Heat treatment of peach budwood provides extra protection against possible contamination from the peach yellows viruses or X disease virus. One of the best methods is to dip the bud sticks into hot water 122 degrees Fahrenheit; they should remain in the water for five minutes.

COVER ILLUSTRATION.

Viburnum Wrighti.

The phrase, "showiest of the viburnums," has been applied to *Viburnum wrighti* because of the abundant small scarlet fruits that come in late summer and the equally brilliant purplish-red foliage that follows in autumn. The bright berries persist through the winter.

Introduced by Prof. Charles S. Sargent from Japan in 1892, this species was named for the famous botanist, Charles Wright, who first discovered it. Sometimes called the Oriental viburnum, it is a deciduous shrub growing to nine or ten feet in height in moist, well drained, fertile soil.

The leaves are rounded to broadly obovate, abruptly pointed and coarsely dentate, between three and one-half to five inches long. They are blue-green in color, prominently veined and smooth below except on the veins.

The white flowers appear in mid-May or early June in cymes that are short-stalked and 5-branched. The branchlets are red and nearly glabrous; the older branches, dark brown.

An upright grower, this species resembles *V. thierferum*, though the leaves are wider at or above the middle, and *V. dilatatum*, though it has less hairy leaves. The berries of *V. dilatatum* fall earlier.

The Wright viburnum is hardy in zone 5. Plants grown from seeds develop into typical specimens, while those from cuttings may not always do so. When used in the landscape, it should be placed so that its autumn and winter effect can be enjoyed.

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<i>Juniperus virginiana</i> , 2-yr. sdlg., 6 to 10 ins.	\$ 5.00	\$45.00
<i>Magnolia glauca</i> , 2-yr. sdlg., 8 to 12 ins.	6.00	50.00
<i>Picea excelsa</i> , 3-yr. sdlg., 4 to 8 ins.	5.00	45.00
<i>Picea pungens glauca</i> , 3-yr. sdlg., 3 to 6 ins.	5.00	45.00
<i>Pinus aristata</i> , 2-yr. sdlg., 2 to 4 ins.	4.00	35.00
<i>Pinus flexilis</i> , 2-yr. sdlg., 2 to 3 ins.	4.00	35.00
<i>Pinus mughus</i> , 3-yr. sdlg., 3 to 6 ins.	5.00	45.00
<i>Pinus sylvestris</i> , 3-yr. sdlg., 8 to 12 ins.	4.00	35.00
<i>Pinus thunbergi</i> , 2-yr. sdlg., 4 to 8 ins.	4.00	35.00
<i>Syringa vulgaris</i> , 2-yr. sdlg., 8 to 10 ins.	4.00	35.00
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<i>Thuja occidentalis</i> , 3-yr. sdlg., 6 to 8 ins.	4.50	40.00
<i>Tsuga canadensis</i> , transplants, 6 to 8 ins.	10.00	85.00

2-YEAR BEDDED CUTTINGS

	Per 10	Per 100
<i>Taxus media hatfieldi</i> , 10 to 12 ins.	\$4.00	\$35.00
<i>Taxus media Moon's columnaris</i> , 8 to 10 ins.	4.00	35.00
<i>Taxus media Vermeulen</i> , 10 to 12 ins.	4.00	35.00

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	Per 10	Per 100
<i>Magnolia soulangeana</i> , 2 1/4-in. pots, 8 to 12 ins.	\$8.00	\$75.00
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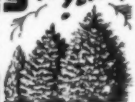
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SHADE TREE CONFERENCE.

[Continued from page 14.]

without full knowledge of its possibilities for injury. Slides in natural color were shown illustrating 2,4-D injury on various trees and shrubs.

Oak Wilt Disease.

Prof. James E. Kunz, division of forest pathology, University of Wisconsin, Madison, gave an outstanding talk about "Oak Wilt." Briefly tracing the history of the disease, he stated that early records indicate oak wilt was present in Wisconsin at least twenty years ago and increasing incidence of the disease brought it to the attention of pathologists at the University of Wisconsin, the Wisconsin conservation department and the United States Forest Products Laboratory, who determined through research that the fungus, *Chalara quercina*, was the causal agent of the disease. Since that time, oak wilt has been found scattered throughout southern Wisconsin, southeastern Minnesota, eastern Iowa, Illinois, Missouri and eastern Indiana.

At least twenty-eight species of native oak are known to be susceptible to the disease, Dr. Kunz stated, and none have been found to be immune. He separated the oaks into two classes, the red oaks and the white oaks, and then described the symptoms of oak wilt as follows: In the red oaks the first symptom is a slight curling and paling of the older leaves, usually near the top of the tree or toward the tips of the upper lateral branches. The leaves gradually become bronze to brown progressively, from the tip or margins toward the base. The base of the leaf petiole becomes swollen and darkens in color. The leaves may fall during any of the symptom stages; often complete defoliation and death of the tree occurs within a few weeks after the first symptom of the disease has appeared. In the white oak group leaf symptoms are more localized than in the red oaks, and it is seldom that an entire tree wilts and dies during a single season. Twigs with dead or dying leaves may be scattered throughout the crown, with some branches remaining seemingly healthy. An infected white oak may live for several years, dying progressively from the top downward. Brown to black streaking is generally found in the tissues just under the bark of infected branches.

It has not yet been determined how the disease spreads from an infected tree to distant oaks, but jumps of several hundred yards or more are known to occur. Locally, the disease

can spread through natural root grafting between like species, Dr. Kunz stated, although root grafts between oaks of different species have not been known to occur. Research that established the fact that root grafting is prevalent also suggested that a symbiotical relationship, instead of one of constant competition, may exist between closely adjacent trees of like species in which the root system of one may contribute to the growth of the other.

No method of controlling its spreading to distant areas, other than the practice of sanitation measures, is known, Dr. Kunz said. For controlling or preventing local spreading of the disease through root grafting, isolation of infected trees or of small areas of infection may be possible by deep trenching and severing the roots, or by killing all immediately adjacent oaks through the use of toxic chemicals. No infected trees in the red oak group have been known to recover from the disease; in the white oak group careful, rigorous pruning of all wilting branches has been reported to prolong the life of an occasional tree. Slides were shown

illustrating the occurrence of root grafting, the various symptom stages of the disease in both red and white oaks and the known distribution of oak wilt in the midwestern states.

Dutch Elm Disease Research.

Dr. Curtis May, of the division of forest pathology, bureau of plant industry, United States Department of Agriculture, Beltsville, Md., presented a report on "Current Research on Dutch Elm Disease," describing several projects now in progress at the research stations and giving the results obtained to date. Stating that Dutch elm disease is exceedingly difficult to control, Dr. May advocated the practice of sanitation measures. He emphasized that it was important to remove and to burn dead elms, whether they had died of Dutch elm disease or from other causes, in destroying the breeding places and cover of the bark beetle which serves as the carrier of the disease. It is particularly important to remove such trees before the first brood of beetles emerges in the early spring. Various chemical compounds including carolate and oxyquinoline benzo-

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ate have been tried in experimental tests directed toward prevention or control of the Dutch elm disease, but none has been successful. DDT sprays applied to control the vector, the elm bark beetle, appear to be the most promising.

Attempts to propagate a strain of elms that are resistant to both elm phloem necrosis and the Dutch elm disease have not been entirely successful, Dr. May said. Prior to 1950 a few trees had seemed to possess resistant qualities from more than 2,000 elms inoculated with Dutch elm disease. These were inoculated this season with a particularly virulent strain of the Dutch elm disease, and all developed characteristic symptoms of the disease. Even the Christine Buisman elms, which were thought to be highly resistant to Dutch elm disease, developed typical symptoms after inoculation with this strain of the disease.

In a brief commentary on oak wilt, Dr. May said that just prior to the meeting he had received reports from the U. S. D. A. station, at Columbia, Mo., confirming the finding of oak wilt disease in one county in Arkansas and also in an area some thirty-five miles east of Cleveland, O.

Cystospora Canker.

Dr. J. C. Carter, plant pathologist, Illinois State Natural History Survey, Urbana, Ill., discussed "Cystospora Canker" and used natural color slides to illustrate his remarks and to show the manner in which the disease affects various species of trees. Species likely to become infected with this fungus disease include poplar, oak, Chinese chestnut, elm, mulberry, spruce, hemlock and others. The fungus spores gain entrance to the inner tissues of the host plant through open wounds resulting from unpainted pruning cuts, branch stubs or other mechanical injuries. Spores are disseminated by wind, rain, insects and similar agents, or may be carried on pruning tools, Dr. Carter said. Cankers may appear on branches, trunk or buttress roots and are noticeable on young wood as depressed, discolored areas on the bark. Cankers on older wood may be detected by tapping with a penknife or light hammer, since the bark quickly separates from the wood over the infected area and gives forth a hollow sound when lightly tapped. Brown or black discoloration of the inner wood tissues occurs as the disease spreads within its host. The cankers may completely girdle the branch or stem on which they occur and cause death of that portion of the tree

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Standard ROSES on rugosa, first quality	100.00	900.00
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above the canker. Control measures suggested by Dr. Carter include pruning the infected branch beyond the discoloration in the inner wood, removing trunk cankers by surgical means, applying fertilizer and watering the tree during drought periods. To prevent spreading the disease, all pruning tools used in treating infected trees should be sterilized before using them on other trees, and clean, disease-free nursery stock should be used in all planting operations. The use of fungicidal sprays might aid in controlling the disease, particularly on spruce, Dr. Carter concluded.

Importance of Soil Aeration.

"Because one-third to one-half of the volume of a tree is out of sight below the surface of the soil, it is, therefore, generally out of mind," said Dr. Paul J. Kramer, of the department of botany, Duke University, Durham, N. C., in his talk on the subject of "Soil Aeration and Tree Growth."

Dr. Kramer mentioned that, to grow successfully, a tree must have an adequate root system, which is not possible unless the soil is well aerated and contains at all times a sufficient supply of oxygen. Tree roots develop properly when the oxygen content of the soil is approximately twenty per cent, although they will grow to some extent when the oxygen content is reduced to ten per cent and will survive even when it drops to three per cent.

The quantity of oxygen in the soil is influenced by various factors. High temperatures cause a decrease in oxygen content, while dry weather results in an increased supply of oxygen. Root growth tends to reduce the oxygen in the soil; the activity of soil organisms that aid in the decomposition of organic materials may further reduce soil oxygen content. Compaction of the soil surface by trampling or other means prevents free interchange of soil and atmospheric gases, and the supply of oxygen in the soil decreases. When soil is flooded, the pores in the soil structure that normally contain air become filled with water and the oxygen supply decreases. Oxygen decreases with depth; there is considerably less oxygen at a depth of three feet than there is near the surface. Oxygen content varies also with the structure and texture of the soil; some soils contain as much as fifty per cent of pore space, while in others there may be as little as five per cent.

Lack of adequate soil aeration is quickly reflected in tree growth, said

Dr. Kramer. It causes trees to develop shallow root systems, which make them vulnerable to drought and windstorms and may cause increased activity of certain soil organisms that are injurious to trees. It causes a build-up of toxic gases in the soil that are injurious to both tree roots and beneficial soil organisms. Toxic conditions may be produced in the root tissues, because of lack of oxygen. Poor aeration reduces absorption of water and mineral nutrients and retards transpiration and photosynthesis. Dr. Kramer pointed out that tree troubles resulting from poor aeration caused by floods or similar temporary conditions often are diagnosed incorrectly, because of the long period of time that elapses between injury and the appearance of symptoms.

Howard P. Quadland, New York, director of public relations for the American Association of Nurserymen, presented a paper outlining the objectives of the "Plant America" program sponsored by the A. A. N. He reported about the progress made in the campaign and urged greater and more widespread support of this movement.

New Small Trees.

John L. Creech, associate horticulturist, division of plant exploration and introduction, U. S. D. A., Beltsville, Md., discussed "Some Promising New Small Trees," showed slides in natural color of a number of varieties and described the growth habits of each. Trees that at maturity exceed thirty-five feet in height were not considered, nor were those that are restricted in use, because of exacting soil or climatic requirements. Interest in small trees is increasing, because of the greater number of smaller homes and the increasing need for small trees along city streets and in parks. Propagation of small-growing varieties has been retarded, Mr. Creech said, because of the difficulty nurserymen experience in finding a market for such species. He urged city foresters and park men to promote more interest in the smaller, more desirable varieties and to help educate the public as to the desirability of small trees for small homes and create a better market for such varieties.

Controlling Mites.

"Mites on Woody Plants and Their Control" was the subject of a paper presented by Dr. J. G. Matthysse and John Naegle, of the department of entomology, Cornell University, Ithaca, N. Y. Mite populations, said Dr. Matthysse, usually

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European Mountain Ash, X, 4 to 5 ft., lots of 10.....	65.00
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European Mountain Ash, X, 2 to 3 ft.....	25.00
European Mountain Ash, 2-0, 24 to 36 ins.....	15.00
European Mountain Ash, 2-0, 12 to 24 ins.....	10.00
European Mountain Ash, 2-0, 6 to 12 ins.....	6.00	\$ 50.00
(Grown from seeds from red-berried trees.)		
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Red Barberry, X, 12 to 18 ins.....	15.00	125.00
Red Barberry, X, 6 to 12 ins.....	8.00	70.00
Green Barberry, X, 12 to 18 ins.....	10.00
Green Barberry, X, 6 to 12 ins.....	7.00
Colorado Blue Spruce, 3-2, 6 to 9 ins.....	15.00
Colorado Blue Spruce, 3-0, 8 to 10 ins.....	9.50	65.00
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build up in the early summer, decline during the middle of the summer and increase again in the fall. For best results controls should be applied when the population is in the process of building up, instead of during midsummer, even though at that time the mites may seem more numerous.

Various materials used in the control of mites were discussed. Dusting sulphur is effective, but Dr. Matthyse warned that it might injure certain plants. Rotenone, used at the rate of one quart of one per cent Rotenone to every 100 gallons of water, is effective, but slow in action. In using oil sprays, Dr. Matthyse warned that only those which have been specifically designed for use on ornamentals should be applied. Both dormant and summer oil sprays are effective in control of mites, but, since many species of trees and shrubs are susceptible to injury from oil, such sprays must be used with caution. The use of soaps and similar materials occasionally gives good results, but one cannot depend upon these materials. Many of the D-N compounds are toxic to plants, particularly to evergreens, and caution must be exercised in their use.

Most of the organic phosphates are effective, but are somewhat erratic in results. For example, Dr. Matthyse explained, Parathion often does not give good control of spruce mites. The residual effect of many of these newer compounds is not so long as could be desired, and, since they are highly toxic to humans, extreme caution must be observed in handling and applying them. Slides made from charts were shown illustrating the initial toxicity and residual results of various materials that are becoming popular in mite control work.

Antibiotics for Diseases.

In his topic, "Antibiotics—Their Place in Plant Disease Control," Dr. A. B. Hatch, of the penicillin division, Bristol Myers Laboratory, Syracuse, N. Y., said in recent years much research has been done and great advances have been made in the chemotherapeutic treatment of plants for control of various diseases, but this is a pioneer field and much remains to be discovered and explored. Crown gall, he stated, can be controlled by use of either streptomycin or penicillin, and usually one application gives completely satisfactory results. Treatment of pear and walnut blights with penicillin has not been successful, nor has any antibiotic been found to date that is successful against the Dutch elm dis-

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ease. Many of the antibiotics that are toxic to fungi are also toxic to plants; most of those that can be used on plants must be applied in the form of sprays instead of through injection, because of their high degree of toxicity when introduced directly into the sap stream. Since these materials are soluble, they are readily washed off by rainfall.

Discussions on Trees.

At the plant clinic Friday morning, Dr. A. M. S. Pridham, of the department of ornamental horticulture, Cornell University, Ithaca, N. Y., served as discussion leader. Although this was only a 45-minute session, the subjects discussed covered a wide range in the field of shade tree maintenance and disease and insect control.

A symposium on shade trees, their use, planting, maintenance and pest control, was conducted by Dr. J. G. Matthysse; Dr. D. S. Welch, of the department of plant pathology, Cornell University, and Jake Gerling, of the department of parks, Rochester, N. Y. Five tree species—elm, London plane, Norway maple, copper beech and the Japanese pagoda tree, *Sophora japonica*—were discussed from the standpoints of horticultural use, insect enemies and diseases. Slides of these trees and other species found particularly desirable in the parks at Rochester were shown by Mr. Gerling. Many of the trees held in highest esteem in the Rochester park system, Mr. Gerling said, are small-growing species. He advocated greater use of such species in parks, and he added, "Knowledge of small trees will create demand for them; upon this demand, the nurserymen will propagate these species."

With regard to insect pests and diseases of the trees under consideration, Dr. Matthysse and Dr. Welch evaluated these species as follows:

Elm. It is subject to attack by many insects, including cankerworm, leaf beetle, scale insects and others. It is attractive to the elm bark beetle, carrier of the Dutch elm disease, and to the leaf hopper, which transmits elm phloem necrosis, both of which diseases have killed thousands of elms in recent years. Additional diseases that affect elms include wet wood disease, elm mosaic, pit canker, verticillium wilt and many others. Because of its beauty, the elm is widely used in plantings, but it should be given adequate maintenance, including protection against and treatments for the pests to which it is susceptible.

London plane tree. The lace bug

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Taxus cuspidata (spreading), 15 to 18 ins....	2.75	2.50
Taxus cuspidata (spreading), 18 to 24 ins....	3.25	3.00
Taxus cuspidata (spreading), 24 to 30 ins....	4.00	3.75
Taxus hicksi, bushy, 18 to 24 ins.....	2.75	2.50
Taxus hicksi, bushy, 24 to 30 ins.....	3.75	3.50
Taxus vermeulen, bushy, 18 to 24 ins.....	3.00	2.75
Tsuga canadensis, bushy, 3 to 4 ft.....	3.75	3.50
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is rated as one of the most serious insect pests of this tree. It is sometimes attacked by bagworm, Japanese beetle, aphid and other insects. Anthracnose and the London plane canker may cause severe injury.

Norway maple. This tree is attacked by several species of insects, including aphid, Japanese beetles, scale insects, mites, tussock moths and others. Generally more serious than the insect pests are the diseases to which this tree species is subject. Verticillium wilt, basal canker and bleeding canker often cause severe injury. It is also subject to several leaf diseases.

Copper beech. With the exception of the woolly beech aphid, which causes curling and blighting of the leaves, and the beech scale, this tree is generally regarded as being free of insect attack. It is also relatively free of diseases.

Japanese pagoda tree. This tree is regarded as being generally free of insects and diseases, although nursery plantings in the southern states are sometimes damaged by damping-off disease.

Sessions for Foresters.

A meeting of city foresters, park superintendents and others interested in public area tree management problems was held Wednesday evening and attended by approximately 150 members of the conference. With Carl Fenner, assistant city forester, Lansing, Mich., serving as chairman and mediator during the 3-hour session, management policies, city ordinances, salaries of workmen in various grades of jobs, trees suitable for use in cities and other problems of concern to city foresters were discussed. A film illustrating the versatility and economic advantages of chain saws was shown.

A special session for utility foresters was held Thursday morning, with some forty members attending. Karl Kuemmerling, forester to public utilities, Canton, O., served as discussion leader, and the question of forming a subsection composed of conference members interested in public utilities work was considered and approved. Prof. Karl Dressel, of the department of forestry, Michigan State College, East Lansing, was elected permanent secretary of the group.

Exhibits and Demonstrations.

Interesting educational exhibits were displayed in the exhibit hall of the New York State College of Forestry. These included cross sections of trees, insect and disease mounts, tools used in forestry work and many other items. A cleverly planned and



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Thurlo Weeping Willow,
5 to 6 ft., up to 2-in.

Lombardy Poplar, 5 to 6 ft., up to 2-in.

Arborvitae, Pyramidal; *Juniperus columnaris*, glauca, *keteleeri*, Hill's Dundee, up to 3 1/2 to 4 ft. Pfitzer Juniper, 15 to 18 and 18 to 24 ins. Austrian and Scotch Pine, heavily sheared, 4 to 5, 5 to 6 and 6 to 7 ft.

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well executed demonstration to illustrate safety practices in tree climbing, tool handling, chopping and tree-felling work was staged by Mr. Kuemmerling and members of his staff. Proper methods of tree spraying were demonstrated under the direction of Norman Armstrong.

Through the cooperation of fifteen manufacturing firms and their distributors, tools and equipment used in arboricultural work were demonstrated Wednesday afternoon in Thornden park, Syracuse. In addition, various tools, supplies and materials representing the products of thirty manufacturing firms were displayed at Hotel Syracuse.

Business Session.

At the business session it was announced that the twenty-seventh meeting of the conference would be held August, 1951, at Cincinnati, O., and that the executive committee had selected Boston, Mass., as the meeting place of the 1952 conference. Following reports by the treasurer, the editor, and the chairmen of several committees, Dr. L. C. Chadwick, secretary, announced the formation of a Canadian chapter of the National Shade Tree Conference. Because of increased cost of printing and general increases in the cost of operation, annual dues of conference members were raised from \$6 to \$8, effective at the end of the current fiscal year. Membership in the conference at the start of the meeting was 1,210, said Dr. Chadwick, and twenty-five new applications had been received.

Entertainment.

The ladies' program included luncheon at Persian Terrace, Hotel Syracuse; a style show by Addis Co., Syracuse; a visit to the rose gardens of Jackson & Perkins Co., Newark, N. Y.; a behind-the-screen view of television at the General Electric Co., Syracuse; a visit to the Onondaga Pottery Co., Syracuse, and a conducted tour of points of interest on the campus of Syracuse University.

The annual banquet was unusually well attended. The program featured Cardini, a magician from New York city; Miss Priscilla Gillette, stage and screen star, who was graduated from Syracuse University several years ago, and Miss Dorothy Grover, the 1950 "Sweetheart of Sigma Chi" and baton-twirling majorette of the Syracuse University field band. Beautiful bouquets and flower corsages were furnished through the courtesy of Jackson & Perkins Co.

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GET YOURS FIELD-FRESH AND FREEZE-FREE.

SOUTHERNERS MEET AT HISTORIC CHARLESTON.

[Continued from page 8.]

which stretched above the speakers' desk, bearing the slogan, "Alabama Will Come into Its Own When Its Fields Are Green in Winter." This, he explained, was the slogan coined for the south as a whole by Hugh McRae when he was president of the Southeastern Council in 1937. Mr. Chase referred briefly to the progress made by nurserymen, among others, in advancing this slogan by rotation of grain and grass crops providing year-around grazing for cattle.

Landscaping Housing Units.

The session concluded with an address on "Landscaping of Housing Units," by Eugene R. Martini, landscape architect and planting consultant, Atlanta, Ga. A resident of Atlanta for eight years, he has had experience in housing projects which made his advice to the nurserymen extremely practical and highly valuable. On this account, his address is published almost in entirety in this issue.

Further practical advice was given the audience the following morning when Arthur L. Shephard, land planting consultant, Federal Housing Administration, Atlanta, Ga., spoke briefly on planting FHA-insured properties. These remarks are presented in full on another page.

Concluding Session.

Aside from this talk and the election of officers, the final session Thursday morning, August 24, was given over to committee reports.

Dr. G. M. Bentley, long Tennessee state entomologist until his recent retirement, telegraphed a report of progress for his photographic committee, stating that this had been his first absence from a Southern convention in many years.

Harry Nettles, Asheville, N. C., read the report of the necrology committee. Tom Dodd, Sr., Semmes, Ala., for the publicity committee, commented upon the liberal newspaper space given to the convention. Walter E. Campbell, Greensboro, N. C., called attention to the first display of trade exhibits for several years. M. L. Harkey, Charlotte, N. C., presented the recommendations of the nominating committee. A. N. Watson read the report of the resolutions committee.

Dinner Speakers.

Following luncheon, August 23, John Wight, Cairo, Ga., vice-presi-

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dent of the American Association of Nurserymen, spoke on the activities and objectives of the national organization and explained the value of membership.

At the banquet in the evening, the master of ceremonies was Tom Hitt, editor of the Charleston Evening Post, who provided witty introductions. The speaker of the evening was L. Mendel Rivers, congressman from South Carolina, who reported on the political situation at the nation's capital, with the caustic criticisms of a Dixiecrat. His patriotic attitude, as well as his ringing phrases, won him repeated applause.

After a short floor show by local talent, ballroom dancing continued until a late hour. More general participation was gained than in the square dance at the get-acquainted party in the same room, at which the South Carolina Nurserymen's Association was host on the preceding evening. Both evenings brought out the full attendance of those present at the time and were highly successful in promoting acquaintance among the membership.

Excursions.

Visitors had their choice of several trips planned by the local nurserymen. Most of them chose the har-



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bor trip to old Fort Sumter Tuesday afternoon, when the party filled two boatloads. Wednesday afternoon was open for either this trip or a tour of historic Charleston or a visit to the famous gardens in the vicinity.

Homes have been restored in recent years in the oldest section of Charleston, so that one has glimpses of what they were like two hundred to three hundred years ago, and to a person historically minded a visit to Charleston is a treat almost without parallel in this country.

The luxuriant Magnolia Gardens, laid out over two centuries ago, and the landscaped terraces of Middletown Gardens attracted many, although the season for full enjoyment is February or March, when the azaleas and camellias are at their height of bloom. Nevertheless, the sight of the old magnolia trees, crape myrtles up to fifty feet high, big camellia and azalea plants more than 100 years old and rare trees and shrubs kept the attention of the party through a long afternoon. The leader was Nor-

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12 to 15 ins., fr. xx.	16.00 150.00

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Hydrangea Paniculata Grandiflora.	
6 to 12 ins., 1-yr., C.	7.00 65.00
12 to 18 ins., 1-yr., C.	11.00 100.00
18 to 24 ins., 2-yr., br.	15.00

Cornus Florida.	Each
2 to 3 feet, well br.	\$0.20
3 to 4 feet, well br.	.30
4 to 5 feet, well br.	.45

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9 to 12 ins., s.	2.50 20.00
12 to 18 ins., s.	4.00 35.00
18 to 24 ins., s.	6.00 55.00

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3 to 6 ins., s.	2.00 15.00
6 to 9 ins., s.	3.00 25.00
9 to 12 ins., s.	4.00 35.00
12 to 18 ins., s.	5.00 45.00
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Hopa and Elegi, 4 to 5 ft.	.50
Tree Wistaria, 3 to 4 ft.	3.00
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wood Hastie, Jr., manager of Magnolia Gardens, eighth generation of the family owning the gardens.

Others visited, then or on Thursday afternoon, a newer garden, Pierates Cruz, at Mount Pleasant, across the harbor from Charleston. They also visited the Carolina Floral Nursery, conducted by F. J. Aichele, and the Old Fort Camellia & Azalea Garden, conducted by Margaret and Phil Higdon, where much fine stock was seen.

Arrangements.

Much praise was given to the local members of the arrangements committee, F. J. Aichele, Jr., chairman; Mrs. Margaret F. Higdon, and Norwood Hastie, Jr. Not only were plans carefully prepared in detail, but the members were constantly present to insure the enjoyment of the guests.

In addition to the association badge, the South Carolina Nurserymen's Association provided one of a palmetto tree made of woven strands on a green ribbon. At the luncheon souvenirs were at the places, representing small burlapped balls of boxwood and juniper.

Auxiliary Meets.

A breakfast meeting of the auxiliary drew twenty-five members, Wednesday morning, August 23, to hear Mrs. Marie Griffin, Charleston cosmetologist, speak on beauty culture and make-up. In the absence of both president and secretary, Mrs. Carol (Harold S.) Daniels, presided and Miss Eugenia Gibson, Asheville, took the minutes.

Mrs. Daniels was elected president for the ensuing year; Mrs. T. N. Nicholson, Decherd, Tenn., vice-president, and Miss Hilda Morse, Chattanooga, Tenn., secretary.

Exhibits.

In a room at the entrance to the meeting hall were a number of trade exhibits. The firms and their displays included Mono Manufacturing Co., Joplin, Mo., tree saw and mower; Garden Supply Co., New York, N. Y., peat moss and hand sprayer; Roto-Hoe & Sprayer Co., Newbury, O., Roto-hoe and Roto-cutter; Charleston Supply Co., Charleston, S. C., and Columbia Supply Co., Columbia, S. C., distributors of Atlas irrigation pipe and Marlow pumps; Gravely-Carolinas, Inc., Columbia, S. C., Gravely tractors and Hardie sprayers; Planters Fertilizer & Phosphate Co., Charleston, S. C., garden fertilizers; McIntosh Seed House, Charleston, garden supplies; H. & M. Chemical Co., Sumter, S. C.,

NORTHERN STOCK

Fall shipment, September 15 to November 1. Grown in the open, without shade. There may be as good, but none better. Write for prices on 10,000 or over, 500 at 1000 rate.

TRANSPLANTS

American Arborvitae,	
4-yr., 12 to 15 ins., heavy	Per 100 Per 1000 \$15.00 \$125.00
4-yr., 8 to 12 ins.	10.00 90.00
Colorado Blue Spruce,	
4-yr., 4 to 6 ins.	12.00 100.00
White Spruce,	
4-yr., 4 to 6 ins., heavy	10.00 90.00

SEEDLINGS

American Arborvitae,	
3-yr., 4 to 8 ins., heavy	30.00
Black Hills Spruce,	
3-yr., 4 to 8 ins.	3.50 30.00
2-yr., 2 to 4 ins.	2.50 20.00
Colorado Blue Spruce,	
3-yr., 4 to 6 ins., heavy	3.50 30.00
Mugho Pine, 3-yr., sheared	
to 4 ins.	30.00
Norway Spruce,	
3-yr., 4 to 8 ins., heavy	3.50 30.00
2-yr., 2 to 4 ins.	3.00 25.00
Scotch Pine,	
2-yr., 4 to 6 ins.	25.00
White Pine, Wisconsin,	
3-yr., 4 to 6 ins.	25.00

Cash with order, or satisfactory reference. Satisfaction guaranteed.

J. R. PALMER & SON
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Wholesale nursery
in business for 30 years.

Beautiful NATIVE RED CEDARS

Fall and Spring. While they last. Never able to supply all our orders in the spring. Book orders now.

	Per 1000
5 to 10 ins.	\$20.00
10 to 15 ins.	35.00
	Per 100
15 to 24 ins.	7.50
24 to 36 ins.	12.50

Write for good prices on **Hard Maples, Dogwood, Red Bud, Black Walnuts**, etc.

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HEAVY 2-YR. SHRUBS FRUIT TREES

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LINING-OUT STOCK

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Oklahoma City 1, Okla.

ROSES

2-yr. Field-grown.

Write for list and prices.

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End of S. Jefferson Springfield, Mo.
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For the first time in ten years we are able to offer to the trade a complete list of both **1-year and 2-year Sweet and Sour Cherry Trees**. We would appreciate an opportunity to quote you on your needs for the coming season. We feel both you and your customers will be highly pleased with our McClain-grown cherry trees.

We also have a fair surplus in **1-year Peach, 1-year and 2-year Pear and Grapevines**.

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FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard

Pear, 1 and 2-yr., Dwarf and Standard

Plum, 1 and 2-yr.

Sweet and Sour Cherry, 1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

Write for our wholesale list.

KELLY BROS. NURSERIES, Inc.
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SMALL FRUIT PLANTS

Thirty varieties of Grapes, including the

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Currants and Berry plants

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We wish to purchase . .

Evergreens, Fruit Trees, Shrubs, etc.

Send your surplus list to
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SMALL FRUIT PLANTS and

VEGETABLE ROOTS

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WE OFFER . . . Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

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*We specialize in
these outstanding products*

Chipman's Canada Red, MacDonald and Valentine Rhubarb.

Minnesota Fruit Breeding Farm
creations.

Hardy Apple and Plum Seedlings.

SUMMIT NURSERIES
STILLWATER, MINN.

Mo-di insecticides and Premier peat moss; California Spray-Chemical Co., Richmond, Calif., Volck and other insecticides; Walter E. Campbell, Greensboro, N. C., soil displacement plow and nonprecipitating Bordeaux mixture.

Across the street, on a truck, was displayed one of the new Allis-Chalmers tractors particularly adaptable to nursery operation.

Notes.

Harold Dodd, 24-year-old son of Tom Dodd, Semmes, Ala., has been called into service with the National Guard.

John Fraser, Jr., Huntsville, Ala., and his family were kept home to supervise the completion of an addition to the cold-storage facilities of the Huntsville Wholesale Nurseries. When completed, these will hold twenty-five cars of rosebushes, it is reported.

Walter W. Hillenmeyer reported the near completion of a retail garden store, 40x60 feet, adjoining the packing house of the Hillenmeyer Nurseries, Lexington, Ky. Stone pillars, carriage lamps and white fence will carry out the Kentucky theme. Completion is expected by October.

Kenneth McClain, Washington Heights Nurseries, Knoxville, Tenn., reported that the rains this year would make one-year cherry trees plentiful and 2-year trees light, an ironical reversal of last year, when the heavy demand was for the lighter grade.

The Georgia A. A. N. chapter and the executive committee of the Georgia Nurserymen's Association will hold a "Plant Georgia" meeting at Atlanta, September 29. It will be addressed by Howard P. Quadland and Curtis Porterfield, of the A. A. N. staff. A similar meeting is planned the following evening in Florida.

OBITUARY.

George W. Pearson, Jr.

George William Pearson, Jr., owner of Mobala Nurseries, Mobile, Ala., died of injuries sustained in an automobile accident near Mobile, August 22. He was 33 years old. Mr. Pearson's car went out of control on a curve, traveled 250 feet along the shoulder of the black-topped road and rolled over, after plowing into a driveway curbing, according to the highway police.

A marine corps veteran, Mr. Pearson was a member of the American Legion, Veterans of Foreign Wars, Mobile chamber of commerce, Knights of Columbus and Elks.

McDANIEL TO ILLINOIS.

J. C. McDaniel has resigned his editorship of Tennessee Horticulture, monthly bulletin of the Tennessee State Horticultural Society, to accept a position with the extension service of the University of Illinois, Urbana. He will continue as editor of the new fruits publication of the American Pomological Society and as secretary of the Northern Nut Growers Association. A. N. Pratt, state horticulturist in the Tennessee department of agriculture, will succeed Mr. McDaniel as editor of the Tennessee bulletin.

CATALOGS RECEIVED.

WHOLESALE PRICE LISTS.

Evergreen Nursery Co., Sturgeon Bay, Wis.—Lining-out stock, deciduous liners, perennials and specimen evergreens; 8-page folder, 3/4x8 1/2 inches.

Golf Nursery, Northbrook, Ill.—Evergreens, ornamentals, fruit trees, shrubs and vines; 32 pages, 5 1/2x8 1/2 inches.

Verhalen Nursery Co., Scottsville, Tex.—Broad-leaved and coniferous evergreens, deciduous shrubs and trees and ornamental vines, 24 pages and cover, 4x9 inches.

Willis Nursery Co., Ottawa, Kan.—Bulbs, perennials, shade trees, shrubs and vines; 16 pages, 5 1/2x9 inches.

RETAIL CATALOGS.

Carroll Gardens, Westminster, Md.—Bulbs, perennials and flowering shrubs; illustrated, 40 pages, 8 1/2x11 inches.

Earl Ferris Nursery, Hampton, Ia.—Bulbs, perennials, evergreens, shade trees, shrubs and vines; illustrated, 32 pages, 8x10 1/2 inches.

Henry Field Seed & Nursery Co., Shenandoah, Ia.—Bulbs, perennials, potted house plants, fruit trees, ornamentals, shrubs and vines; illustrated, 32 pages, 8 1/2x11 inches.

Inter-State Nurseries, Inc., Hamburg, Ia.—Perennials and bulbs; illustrated, 24 pages, 7 3/4x10 1/2 inches.

Louis Smirnow, Brookville, N. Y.—Peonies, irises and azaleas; 8 pages and cover, 6x9 inches.

A FORMAL opening was held this summer for the recently completed showroom and greenhouse of the Smith Floral Service, at Lawrence, Kan.

RECENTLY Mrs. Emily Ritter started a wholesale herb-growing business which she calls Colonial Herb Gardens. It is located at 3250 Henry Hudson parkway, New York 6, N. Y.

BESIDES finding time to serve as mayor of Wichita, Kan., William G. Salome, Jr., owner of the Mount Hope Nursery at that city, has sponsored hockey, basketball, softball and baseball teams during the sport season.

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CHERRY — The finest block of cherry we have ever grown.

PEACH — Complete assortment of standard varieties.

APPLE — PEAR — PLUM — GRAPES RHUBARB — ASPARAGUS

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Many Other Items

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Grapevines, 1 and 2 years old

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Black and Purple Raspberries, Tips and Transplants

Red Raspberries, No. 1 and Transplant Grades

Grown in the heart of Erie County, New York,
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APPLE, PEAR, MAHALEB Seedlings.

APPLE, PEACH, CHERRY, PLUM Trees.

Write for quotations.

ROBERTS NURSERY CO.

Wholesale growers of Dependable

FRUIT TREES

We solicit your list of wants.

DANSVILLE, N. Y.



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

SAN DIEGO CHAPTER ELECTS OFFICERS.

Preston Hodges, of Highland Nursery, National City, was host at a buffet dinner for about forty members of the San Diego chapter of the California Association of Nurserymen when they met August 24 to elect officers for the ensuing year.

Walter Andersen, of Walter Andersen Nursery, San Diego, was elected president; Frank Moennig, of Moennig's Nursery, La Mesa, vice-president, and Al Harutunian, of San Diego Fertilizer Co., San Diego, secretary-treasurer. Elected to the board of directors were Mrs. Effie Jacoby, of Jacoby's Nursery, La Mesa; Howard W. Johnson, of Johnson Nursery, San Diego, and Frank Dawson.

Mr. Harutunian invited the members to hold their next meeting at his home September 21, at which time installation of officers will take place and a barbecue will be held. The nurserymen concluded their August meeting by watching the wrestling matches on television.

Al Harutunian, Sec'y.

LOS ANGELES CHAPTER ELECTION MEETING.

Martin Usrey, of Monrovia Nursery Co., Monrovia, was elected president of the Los Angeles chapter of the California Association of Nurserymen when its members met last month at Monrovia. David Cunningham, of Descanso Distributors, Inc., La Canada, was elected vice-president, and Robert Weidner, of Buena Park Greenhouses, Buena Park, and Lynn Mossholder, Mossholder Nursery, El Monte, were re-elected secretary and treasurer, respectively.

Elected to the board of directors were Homer L. Bonillas, of L. B. Merrick Nurseries; Robert Kunde, of Coolidge Rare Plant Gardens; Ernest Bordier, of Bordier's Nursery; William Wilkerson, of Better Gardens; Carl Zangger, of Tuttle Bros. Nurseries; James Meadows, of Ramona Gardens, and Thad Uyeno, of the Uyeno Nursery Co.

The afternoon program started with a visit to the Deigaard Nurseries, at Monrovia, where the staff

escorted the visitors through the nursery, and refreshments were served in the playhouse of Louis Deigaard. The group then left for a tour of the Monrovia Nursery Co. and a tour of the new wholesale nursery of Ernest Bordier.

Convening at California State Polytechnic College later in the afternoon, many of the nurserymen went swimming before the group inspected the ornamental horticulture department at the college. Following a barbecue enjoyed by everyone, a brief business meeting was held. President F. C. Tomlinson, of Select Nurseries, Whittier, introduced Jolly Batchellor, head of the department

CALIFORNIA PEACH PITS 1950 CROP

Surplus from first crop, 165 bushels on September 15. Next crop due September 18.

	Per bu.
1 to 4 bu.	\$3.50
5 to 9 bu.	3.25
10 to 24 bu.	3.10
25 to 99 bu.	3.00
100 bu. and up	2.75

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LOVELL PEACH PITS

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1 to 5 bu.	\$3.50
5 to 10 bu.	3.25
10 to 25 bu.	3.10
25 to 100 bu.	3.00
100 bu. and up	2.75

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SEEDS

Collectors of Tree, Shrub and
Wild Flower Seeds
Crude Drugs and Ornamentals

E. C. MORAN Stanford, Mont.

AMERICAN NURSERYMAN

of ornamental horticulture, who welcomed the nurserymen to the college and gave a talk on the history and future plans of the college. He introduced Howard Boltz, his assistant in charge of landscaping, and the meeting closed after an inspection of landscape designs drawn by students.

R. E. Weidner, Sec'y.

CALIFORNIA NOTES.

Raymond Burr, of the Burr-Christian Nursery, at Hayward, announces that he has purchased his partner's share in the business which will be operated under the present name but will be owned by Mr. Burr alone. J. Bounds Christian has been ill for several years and has not been active in directing the nursery.

Mrs. Elmer Merz and daughter, Pat, were injured when a taxicab in which they were riding at San Fran-

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NURSERY COMPANY
Niles, California

cisco collided with a passenger car. After spending one night in a local hospital, the two returned to their home at Sacramento. The accident occurred while Mr. Merz, executive secretary of the California Association of Nurserymen, was attending a committee meeting at Belmont.

Tom Sand, past president of the state association, has moved to a new, modern home at Delano.

E. M. Robertson, recently from New Jersey, is employed at the Espalier Nursery, at Belmont.

Roy K. Bishop, first agricultural commissioner in California, died at his home at Sacramento recently. During his period in office, he worked in Orange county, where he was known as horticultural commissioner. His duties included advising the horticulturists about insect control.

C. D. Gustafson has been appointed horticultural adviser in the extension service office in Orange county.

Otto Meerly, formerly a wholesale grower of petunias and best known as a developer of new kinds of double and ruffled petunias, has opened a retail nursery at Menlo Park. Visitors to the formal opening saw a modern retail nursery layout and a large, up-to-date garden supply and office building.

Marcus Simonsen, head gardener at the state capitol for twenty-five years, will retire this fall. He has been in charge of the capitol grounds during the terms of four governors, each of whom loved flowers. Before he retires, Mr. Simonsen hopes that at least one plant of the camellia named for the incumbent governor, Earl Warren, will bloom. This variety was developed by John Edwards, at Palo Alto.

According to the state director of agriculture, 370 nurseries are eligible for certificates permitting shipments of nursery stock to fifty-two of the fifty-eight counties in California without point inspection. The county agricultural commissioners have placards available for the authorized nurseries to use in notifying the public of their changed status.

W. B. B.

PLANTINGS are to be started on Route 4 at North Kansas, Mo., by R. E. Weakley for the purpose of opening a nursery business.

FORMERLY a nurseryman in Michigan, J. Binkins has moved to 1055 Crest drive, Encinitas, Calif., where he has opened an evergreen nursery to be known as Binkins Sales.

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- HEALTHIER FOLIAGE
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	EACH
<i>Cupressus sempervirens glauca</i>	17½c
<i>Juniperus armstrongi</i>	17½c
<i>Juniperus chinensis pfitzeriana</i>	17½c
<i>Juniperus sabina tamariscifolia</i>	20c
<i>Pinus canariensis</i>	12c
<i>Pinus halepensis</i>	12c
<i>Pinus pinea</i>	12c
<i>Pinus radiata</i>	12c
<i>Sequoia sempervirens</i>	15c
<i>Thuja orientalis aurea nana</i>	20c
<i>Thuja orientalis Blue Cone</i>	15c
<i>Thuja orientalis bakeri</i>	15c
<i>Thuja orientalis beverleyensis</i>	20c
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Flowering Peach Trees
and similar stock.

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- Fast selling—high profit
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- Eye catching display

10 strips to a package.....25c Retail
Commercial pack, 100 strips.....\$1.80



Wire center, weatherized plant ties. In a new form...handy 250 ft. and 500 ft. continuous length balls. Easily cut to desired lengths. Also cellophane packaged in 100 8-in. lengths.

- Striking display carton
- Special center pull
- Round shape cushions delicate stems
- Advertised nationally

100 8-in. Cinch-ties. 25c *Bulk Cinch-ties for growers
Small ball, 250 ft. \$1.00 and florists in special cut
Large ball, 500 ft. \$1.75 lengths. Write for prices.

Garden twine

Weatherized

No shrink — no sag. Here is a new product weather resistant, durable and extra strong. Lasts more than a full season.

- Will not unravel
- Advertised nationally
- Special center pull



Small ball, 250 ft. 30c — Large ball, 500 ft. 50c

PROFITS WITH PORTCO GARDEN PRODUCTS



PLANTING FOR HOUSING UNITS.

[Continued from page 9.]

tractor or his architect, and payments are made each month on the basis of these estimates, allowing a percentage "hold back" until final acceptance.

During the finished grading and planting period a member of the zone land planning office usually makes one or two visits to assist the resident FHA examiner in reviewing the quantity, types and quality of plant materials. On most projects the planting and lawn work is completed and paid for during the last two months of construction. However, when construction runs past the end of a planting season, money can be released for the finished grading and lawn construction. Sufficient sums are set aside in escrow to provide for the completion of the planting in the fall.

The design stage for currently active Wherry bill or military housing projects under the old law is similar to that for FHA 608 and 207 projects. However, the responsible officers of the installation concerned and their superiors all the way up the line to the Pentagon will take a considerable interest in the plans.

The construction stages under the old and new military housing program have been and are expected to be identical with that of the FHA 608 program. However, the design stage under the new military housing program is considerably different. The appropriation construction officer of each branch of the service—Capt. W. T. Eckburg, public works officer of the Fifth Naval District, at Charleston; Mr. Duncan, divisional engineer of the United States Engineers, at Atlanta; U. S. A. F. headquarters, at Washington—negotiates an architectural and engineering contract with an architect, a landscape architect and an engineer. The navy, army or air force, as the case may be, pays the associated architect and landscape architect and engineer to develop plans to the satisfaction of the responsible officers in that service and to the satisfaction of the FHA. When the final working drawings are complete, they will be let out on a firm bid basis to a contractor, who will also be the owner and the management corporation and will, in addition, have assurance of an adequate permanent mortgage.

The stages of the public housing program are a little more numerous and more complete. The preliminary

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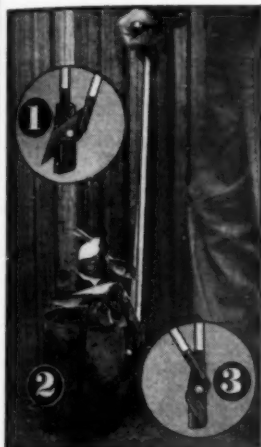
1. Large moisture-absorbing capacity.
2. Will retain moisture for a long period of time.
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You can equip your nursery with some of our labor savers for very little money. The little Gripzit, for instance, at 2 for \$5.30, will greatly speed that can and tub handling work! (And save the good looks of your cans besides—you've seen men kick in their top edges to make a sort of handle to get hold of.)

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But, worth its weight in gold as a labor saver and time cutter is this Multiple Punch, at \$42.00. One man can punch 4 holes in each of 1800 cans per hour. Why not get this "punching" job out of the way as quickly as possible—and free yourself for more profitable work? Remember, it costs you lots more to do your work without the proper tool designed for the job! (Besides, a child in the family can effortlessly punch drainage holes in cans with this Multiple Punch. One 12-yr.-old girl did punch 1000 cans in 45 min.) Punch is adjustable from gal. (No. 10) can to 3-gal. egg and 5-gal. square cans.

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surveys and planning for the project are the responsibility of the housing authorities of each community. These authorities are usually appointed by the mayor. The commissioners or board members are residents in the community involved. The administration of the program is usually handled by an executive director.

This authority selects an architectural firm, which, in turn, must select, if it is not well staffed by registered personnel, a civil engineer, a mechanical engineer, an electrical engineer and a landscape architect. The architect and the other professional men whom he selects are subject to approval by the Public Housing Administration, which is administered from zone offices. One is at Atlanta and another at Richmond.

The authority looks to the architect to develop all necessary plans and to provide all necessary supervision and inspection. The local housing authority reviews and approves the plans and sends them to the PHA zone office for detailed technical, legal and financial review. In the design period, there is first a general scheme or preliminary layout plan submitted, to show the number of units that can be placed on the property selected. There is then a prelim-

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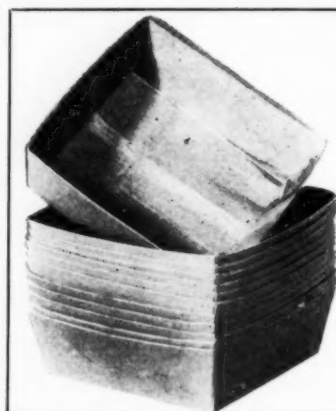
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inary plan prepared which shows the layout of roads, walks and utilities. At this time an estimate is made of the construction costs and an allowance for landscaping, finished grading and lawn construction is made. A figure up to \$200 per dwelling unit for projects of about twelve families per acre is not considered excessive for the planting and lawn work. Current increases in costs may justify a higher allowance than this, or if extensive soil conditioning is necessary this amount may be increased. The design fees are calculated percentage-wise on a sliding scale, in accordance with the cost arrived at in developing this estimate.

When these preliminary plans have been approved, the preparation of final working drawings is started, and these, in a half-finished stage, are submitted for an intermediate review to the housing authority and the PHA. If everything is in line with previous recommendations made, working drawings are made for a final review. When this has been accomplished, they are let out to bid to a general contractor. It is generally preferred that there be one general contractor and that he engage the subcontractors necessary to undertake the various parts of the work. The choice of subcontractors is subject to approval by the housing authority. Once the general contractor and his subcontractors are selected, it is usually customary for the planting contractor to quote unit prices for the plant materials to be used. This is done so that, in the event changes are made, an equitable plus or minus adjustment may be made.

During the construction stage, the architect engages the services of a full-time resident inspector or clerk of the works. The architect and the other professional designers also make weekly supervisory checks on the work and approve payments for the construction that has been completed.



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ed. The PHA also provides a full-time inspector. Time limits for the completion of the work and the required maintenance period and guarantee period are set up completely in the specifications. Payments are made monthly against the work completed. The details of the plans

and the specifications under the PHA program are usually more complete than those to which you have been accustomed under the FHA 608 program.

That takes care of the different housing programs. Now as to design: Design standards are rather difficult



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to establish because design ultimately resolves itself into a matter of aesthetics, in which one man's opinion may be as good as another's. However, there are certain factors which can be kept in mind. The order in which these factors are discussed has no relation to their importance. The design should be so developed that it will require a minimum of maintenance. Initial costs should not be extravagant, but in the case of a choice between the installation of a large shrub and a small shrub of better and more satisfactory quality, use the smaller shrub even though the cost may be initially a little bit more. Consider the ultimate height of all plant materials and the ultimate spread. Do not plant high shrubs beneath windows. Do not plant shrubs so close together that they will grow into a jungled mass and eventually die out from interference. Do not plant within two and one-half or three feet of building walls. Keep shrubby screen plantings away from sidewalk crossings of streets or from street intersections. Avoid extremely showy plant materials, particularly when the showiness is seasonal. And consider texture.

Design your foundation plantings in relation to the design of the structure and its window openings and door openings and mass. Use one type of plant in a group to achieve effectiveness of the plant characteristics. Do not use several varieties in one location, so that there will be a confused appearance. The total effect should be simple rather than complicated or fussy. When the cost allowance is limited, put the emphasis on shade trees and plant smaller shrubs. Keep your trees at least fifteen feet from buildings, possibly farther from 2-story structures. Plant your trees where they will have a functional value in throwing shade on a sitting area or a play area or on a building as a first choice, rather than where

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Kachiyoshishi, light carmine, full double.
Kamada-Fuji, lilac, full double.
Taishe-No-Hikari, vivid crimson.
Sinkagura, crimson, full double.
Tamasudare, pure white, full double.
Rimpo, purple, very big, full double.
Shintenji, cerise, full double.
Orihime, deep carmine.
Shirovanyu, white, full double.
Nishikino-En, carmine, full double.
Akashishishi, deep carmine, full double.
Nichigentunishiki, red with tinted full double.

Hstugarasu, dark red, full double.
Toyoshiro, carmine, full double.
Momoyama, fresh pink.
Higurashi, crimson, full double.
Taishe-Nohokari, purple with tips full double.
Yukisasa, white, big full double.
Okinasishishi, pure white, full double.
Kujakushishi, light carmine, full double.
Godaishu, white, large double flower.
Kokukotusasa, dark red, full double.
Kokuryunishiki, dark purple, full double.
Arashiyama, pink.

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Queen Elizabeth, rose
Uble Light, rose-pink

Mme. de Verneville, white
Floral Treasure, shell-pink
Duchess, white
Felix Crousse, red

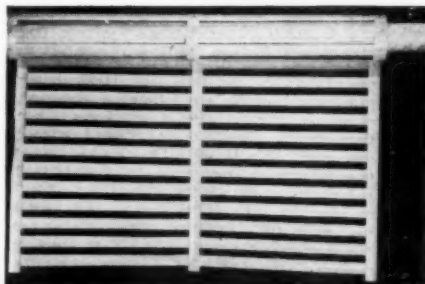
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they will merely be balanced symmetrically about an axis or feature.

Broad-leaved evergreens are generally considered to be the most acceptable. However, do not neglect the deciduous shrubs which have an interesting leaf color in the fall or an interesting branching habit or twig color during the winter. Consider the texture of the plants in relation to the texture of the finish of the structure itself. Where there are banks that are ultimately to be covered with roses or jasmine or ivy or periwinkle, you might use a temporary or a nursery planting of rye to prevent erosion. It will be shaggy during the first season, but at least it will assure the soil's remaining in place until the ultimate ground cover can take over.

Now, in regard to lawns: As you all know, it is very, very important to have a well developed, improved base. Do not count too strongly on radically changing the mechanical or chemical condition of the native soil. Use grass types which can stand the conditions to be found, types which have been tried and are proved to be O.K.; for example, Bermuda for sunny locations, carpet grass for damp ground, St. Augustine grass in Florida, centipede in southern South Carolina and southern Georgia, bluegrass in the mountain sections. Kentucky 31 fescue shows considerable promise if fertilized heavily, but it needs lime. The best shade grass is a mixture of bluegrass, redtop and fescue. Rye is all right as a temporary winter cover alone and should be replaced with a permanent grass in the appropriate season. Remember that the lawns are to be used intensively. When you plant with stolons, do not attempt to plant dried-up hay by the bushel. Get your stolons from a good source, and soak or dampen them before you put them in the ground. Remember that the lawn you install is subject to a final guarantee inspection, and replacement will be necessary on those areas which do not come through well.

In this connection, it might be well for those of you who have the facilities to consider the possibility of a maintenance contract with local housing authorities. You generally are better equipped to undertake lawn maintenance and assure the continued satisfactory growth of the lawn than is the local authority with its janitor or maintenance man. This would not necessarily include lawn cutting, which is generally done by the tenants, but the improvement of areas which are worn through or which die out.

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Now as to specific types of plant materials which should be used for housing projects. For me to be telling you what plants to use is truly "bringing coals to Newcastle." You men know plants better than I do. You know their adaptability, their possible range and the likelihood of their survival in different types of soil or in different exposures. Actually there is no such thing as a plant list for housing projects. As you design the planting for a housing project, you select either from memory or actually from lists of plants which thrive in the particular locality, from lists of plants which ultimately grow to a certain height, plants which have a certain texture, plants which can stand a certain exposure, plants which like certain soil conditions, plants which like certain moisture conditions, etc. Even though you might use the best judgment in developing a plant list, there are so many factors to be considered—the human equation or personal factor, for example—in any one given locality that no one general list can be complete.

However, I do have some selected lists of plant materials to which we refer as a guide in developing our planting plans. Conifers, with the exception of a few for the mountain areas, are missing from these lists. Thujas, in particular, and most of the conifers are especially frowned upon by most planting designers.

As I was preparing my notes for this talk, I had occasion to review the manner in which we are developing our landscape plans and providing supervision to the end that the final result would be creditable and not just satisfactory. As you know, all of us have been under terrific pressure during the past year or two to produce plans in a hurry and to get the projects completed by certain, sometimes arbitrary, deadlines. In addition to that, the plan work and the planting have been limited in order to meet a questionable type of competition, a competition of cut fees and cut prices. A continuation of this trend in my profession and in your profession and activities would eventually discredit both of us considerably. I like to think that we can continue working on the principle of a high quality of service for a fair price rather than to slip into the quick and easy proposition of a cheap service for a cheap price. There is an old advertising slogan that I think all of us might keep in mind, and that is that the memory of quality remains long after the price is forgotten.

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Heavy, 6 to 8 ins., X.....3.50 20.00 185.00
Heavy, 8 to 10 ins., X.....6.50 25.00 200.00
Chinese, 2-yr. sdigs.,.....3.00 25.00
5 to 8 ins.,.....3.00 25.00
Chinese Compacta, 2-yr. sdigs., 5 to 8 ins.,.....3.00 25.00

Barberry, juliana,

from cuttings, Per 10 Per 100

4 to 6 ins., X.....\$20.00

6 to 8 ins., X.....27.50

Boxwood, Old English, dwarf, T., 4 to 5 ins.,.....15.00 \$140.00

Juniperus depressa plumosa (Andorra), 4 to 6 ins., X.....16.50 150.00

6 to 8 ins., X.....18.50 155.00

Juniperus Hetzi, Hetz' blue, Juniper, 4 to 6 ins., X.....18.00 150.00

6 to 8 ins., X.....20.00 155.00

Pieris japonica, 4 to 6 ins., X.....17.50 150.00

Pyraantha lalandi, rooted cuttings.....8.00 150.00

Taxus baccata (English upright Yew), 4 to 6 ins., X.....15.00 145.00

6 to 8 ins., X.....18.00 175.00

8 to 10 ins., X.....22.00 200.00

10 to 12 ins., X.....25.00 225.00

Taxus cuspidata (Jap. spreading Yew), 4 to 6 ins., X.....15.00 145.00

6 to 8 ins., X.....18.50 155.00

Taxus cuspidata nana, 4 to 6 ins., X.....18.50 155.00

Write for our complete list.

ESHAM'S NURSERIES Frankford, Del.

EVERGREEN LINERS.

Per 10 Per 100

Douglas Pyramidal Arborvitae, 2-yr. pots.....\$20.00 \$175.00

Taxus cuspidata, 2-yr. tr., 8 to 10 ins.....20.00 175.00

Taxus media hickii, 2-yr. tr., 8 to 10 ins.....20.00 175.00

Taxus canadensis stricta, 2-yr. tr., 6 to 9 ins.....20.00 175.00

Packing free when cash with order.

RASMUSSEN NURSERIES Mansfield, Pa.

EVERGREEN PLANT MATERIAL.

ADVANCED LINERS in Azalea, Cornus, Cotoneaster, Ilex, Juniperus, Kalmia, Leucothoe, Pieris, Rhododendron, Taxus, Thuja, Tsuga, Viburnum.

Finished Trees in Colorado Blue Spruce. All Certified for Western Shipment.

Write for Wholesale Price List.

H. W. WEBER EVERGREEN NURSERY 16 Summer St. Weston 23, Mass.

LINING-OUT STOCK.

	Per 100	Per 1000
Scotch Pine, 2-0, 3 to 8 ins.	\$ 3.00	\$ 25.00
Scotch Pine, 1-0, 2-0.		
2 to 6 ins.	3.50	30.00
Austrian Pine, 2-0, 3 to 6 ins.	4.00	35.00
Mugo Pine (Dwarf), 2-0, 3 to 4 ins.	3.00	25.00
Mugo Pine (Dwarf), 3-0, 3 to 6 ins.	5.00	45.00
Mugo Pine (Dwarf), 2-1, 2 to 4 ins.	5.00	45.00
Table Mountain Pine, 2-0, 3 to 6 ins.	2.50	20.00
Table Mountain Pine, 1-1, 3 to 6 ins.	4.00	35.00
Norway Spruce, 3-0, 3 to 6 ins.	3.50	27.50
Norway Spruce, 2-1, 3 to 6 ins.	5.50	50.00
Norway Spruce, 2-2, 6 to 10 ins.	8.00	75.00
Colorado Blue Spruce, 2-1, 2 to 4 ins.	4.50	40.00
White Spruce, 2-0, 3 to 6 ins.	3.00	25.00
Black Hills Spruce, 3-0, 2 to 4 ins.	3.00	27.50
Black Hills Spruce, 3-1, 2 to 6 ins.	5.00	45.00
Black Hills Spruce, 2-2, 3 to 6 ins.	6.00	65.00
Black Hills Spruce, 3-2, 4 to 8 ins.	7.00	65.00
Black Spruce, 2-3, 8 to 18 ins.	12.00	110.00
Balsam Fir, 3-0, 2 to 4 ins.	3.00	27.50
Oriental Arborvitae, 1-2, 6 to 18 ins.	10.00	85.00
Dwarf Oriental Arborvitae, 1-2, 6 to 12 ins.	10.00	90.00
Pyramidal Oriental Arborvitae, 1-2, 6 to 12 ins.	10.00	90.00

LINERS, QUALITY PLANTS. Spring or Fall Delivery.

	Each
Azalea:	
Hinodogiri, 2 to 4-in. spread.	\$0.18
Hinodogiri, 4 to 6-in. spread.	.25
Hino-Crimson, 2 to 4-in. spread.	.18
Macrantha Lovett, 2 to 4-in. spread.	.18
Macrantha Lovett, 4 to 6-in. spread.	.25
Daphne, 2 to 4-in. spread.	.18
Daphne, 4 to 6-in. spread.	.25
Mollia Cream, 2 to 4-in.	.08
Mollia Cream, 6 to 8 ins., 2-yr. fl.	.25
Mollia Cream, 8 to 12 ins., branched.	.35
Mollia Cream, 12 to 18 ins., branched.	.50
Andromeda Picta, 4 to 6-in. C. X.	.20
Choisya ternata, 8 to 10 ins., XX.	.35
Daphne mezereum, 6 to 8 ins., X.	.12
Daphne mezereum, 8 to 10 ins., X.	.17
Daphne mezereum, 10 to 12 ins., X.	.22
Daphne odora, 6 to 8 ins., frame.	.35
Daphne odora, 8 to 10 ins., frame.	.45
Heather, mediterranea, 2 to 4-in. spread.	.15
Heather, mediterranea alba, 2 to 4-in. spread.	.15
Heather, Springwood White, 2 to 4-in. spread.	.15
Heather, carnea, 2 to 4-in. spread.	.15
Heather, Mrs. Maxwell, 2 to 4-in. spread.	.15
Cypress, noldensis, X, fl.	.20
Juniperus meyeri, 6 to 8 ins., XX.	.27
Thuja lobbi, 4 to 6 ins., X, fl.	.17
Thuja lobbi, 6 to 8 ins., X, fl.	.20
Thuja woodwardi, globe, 6 to 8 ins., X, fl.	.18
Stimula japonica, 8 ins., branched.	.35

FOUR STAR NURSERY

Rt. 3, Box 3529 Edmonds, Wash.

EVERGREEN LINERS AND CUTTINGS. FALL TRADE LIST, 1950.

	Each	Per 100	Per 1000
Juniperus chinensis pfitzeriana,			
1-yr., 4 to 5 ins.	\$0.20	\$0.18	
Juniperus hetzi glauca,			
1-yr., 4 to 5 ins.	.20	.18	
Arborvitae, Globe Woodward,			
1-yr., 3 to 4 ins.	.17	.15	
Arborvitae, American Dark Green,			
2-yr., 4 to 5 ins.	.20	.18	
Taxus media hicksi,			
2-yr., 5 to 8 ins.	.20	.18	
1-yr. beds, 5 to 8 ins.	.15	.14	

HEAVY ROOTED CUTTINGS.

From flats, rooted outside in lath house. Each—Per 100 Per 1000

Juniperus communis hibernica...	\$0.08	\$0.07
Juniperus communis ashfordi...	.08	.07
Arborvitae, pyramidalis, outside flats,		
1-yr.	.09	.08
Arborvitae, American Dark Green,		
1-yr.	.09	.08
Taxus media hicksi, outside flats,		
1-yr.	.09	.08
Euonymus patens, outside frames,		
1-yr.	.07	.06
2 per cent discount and free packing for cash with order.		

MIAMI NURSERY CO.

Tipp City, Ohio

Pfitzer Juniper, unrooted cuttings, 7 to 10 in. untrimmed. Expert packing, express shipment, \$10.00 per 1000. Cash, please. Trial order will convince you.

NORTON LEBETTER CO.

P. O. Box 155 Elmhurst, Ill.

TAXUS CUSPIDATA CAPITATA.

	Each
18 6 feet	\$15.00
9 6 1/2 feet	18.00
23 7 feet	20.00
18 7 1/2 feet	25.00
33 8 feet	28.00
36 8 1/2 feet	30.00
15 9 feet	33.00
6 9 1/2 feet	35.00
6 10 feet	38.00
1 10 1/2 feet	40.00

TAXUS MEDIA HATFIELDI.

6 4 feet	10.00
5 4 1/2 feet	12.00
6 5 feet	15.00
2 5 1/2 feet	18.00
1 6 feet	20.00
2 6 1/2 feet	23.00
2 7 feet	25.00

TAXUS MEDIA HICKSI.

1 4 1/2 feet	10.00
1 6 1/2 feet	20.00
2 7 feet	23.00
1 7 1/2 feet	25.00
3 8 feet	30.00

Japanese Beetle Certificate.

F.O.B. our nursery.

THE PETER CASCIO NURSERY

2600 Albany Ave. West Hartford 7, Conn.

The following pot plants are pot-bound, with nice top growth, and are ready for immediate shipment.

	Per 100
Callistemon rigidus, 2 1/4-in. pot.	\$12.50
Callistemon rigidus, 3-in. pot.	17.50
Callistemon rigidus (very full), 4-in. pot.	50.00
Gardenia veltchii, 2 1/4-in. pot.	12.50
Gardenia veltchii, 3-in. pot.	17.50
Hibiscus rosa-sinensis, 16 choice, named varieties, 3-in. pot.	35.00
Ilex bufordi, 2 1/4-in. pot.	15.00
Ilex opaca femina, 2 1/4-in. pot.	15.00
Ilex opaca howardi, 2 1/4-in. pot.	15.00
Magnolia soulangeana, 2 1/4-in. pot.	25.00
Magnolia soulangeana nigra, 2 1/4-in. pot.	20.00
Pyracantha Graber, 2 1/4-in. pot.	15.00
Rosa rouletti, with buds, 2 1/4-in. pot.	15.00
Rosa rouletti, with buds, 3-in. pot.	20.00
Juniperus sylvatica, 2 1/4-in. pot.	15.00
Juniperus pfitzeriana, 2 1/4-in. pot.	15.00

Many varieties of Camellia japonica in pots and from beds, Azaleas and liners of choice broad-leaved evergreens and conifers. Write for wholesale price list.

COTTAGE HILL NURSERY

Rt. 4, Box 130, Mobile, Ala.

EVERGREEN LINERS FOR FALL, 1950

	Per 100	Per 1000
1250 Andorra Juniper,		
9 to 12 ins., T.	\$20.00	\$175.00
5000 Andorra Juniper,		
8 to 10 ins., T.	15.00	125.00
1900 Bar Harbor Juniper,		
10 to 15 ins., T.	17.50	150.00
1600 Hets glauca Juniper,		
8 to 10 ins., T.	15.00	125.00
2000 Hets glauca Juniper,		
12 to 15 ins., TTT, heavy	50.00	450.00
1000 Pfitzer Juniper,		
8 to 12 ins., T, heavy	30.00	295.00
1000 Savin Juniper,		
r.c., 6 to 10 ins.	15.00	125.00
500 Globe Woodward Arborvitae,		
6 to 8 ins., TT.	15.00	135.00
1000 Pyramidal Arborvitae,		
9 to 12 ins., TT, heavy	35.00	325.00

These are heavy field transplants. We know that you will like them. Cash with order, please. No charge for packing.

WHERRY'S NURSERIES St. Marys, W. Va.

LINING-OUT STOCK.

	Per 100
Variety and height	
Juniperus depressa plumosa,	
6 to 8 ins.	\$17.50
Juniperus excelsa stricta, 6 to 8 ins.	17.50
Juniperus hetzi, 6 to 8 ins.	20.00
Juniperus hibernica, 6 to 8 ins.	17.50
Juniperus pfitzeriana, 8 to 10 ins.	30.00
Juniperus sabina, 6 to 8 ins.	17.50
Taxus cuspidata, 6 to 8 ins.	22.50
Taxus hicksi, 6 to 8 ins.	25.00
Thuja pyramidalis, 8 to 10 ins.	22.50
Thuja pyramidalis, 10 to 12 ins.	25.00
Thuja sibirica, 6 to 8 ins.	20.00
Thuja woodwardi, 6 to 8 ins.	20.00
Retinospora plumosa aurea,	
10 to 12 ins.	22.50

Packing without cost when cash accompanies order.

The HOLLANDIA GARDENS, Inc.

South Vienna, O.

WHO WANTS THESE CASH BARGAINS?

	Each
300 Pyramidal Arborvitae, 3 to 4 ft.	\$3.00
400 Pyramidal Arborvitae, 4 to 5 ft.	3.50
275 Pyramidal Arborvitae, 5 to 6 ft.	3.75
200 Globe Arborvitae, 18 ins.	2.00
350 Irish Juniper, 2 to 2 1/2 ft.	1.50
100 Irish Juniper, 4 to 5 ft.	2.50
125 Gold Thread Cypress, 1 1/2 to 2 ft.	2.50
150 Gold-tipped Pfitzer, 1 1/2 to 2 ft.	2.50
50 Balsam Fir, 4 to 5 ft.	3.50

All first-class, transplanted stock, B&B, F.O.B. nursery.

Hundreds of Pfitzer, Polish and Andorra Junipers, Siberian Arborvitae, Pines and Spruces.

Let us quote you on your needs.

HOME NURSERY

LaFayette, Ill.

EVERGREENS.

10,000 finished evergreens, B&B grades, ready for fall and spring delivery. Baker, Berckmans and Bonita Arborvitae; Cedrus deodara, Italian and Arizona Cypress, Irish Pfitzer and Spiny Greek Juniper, Retinospora ericoides, Nandina, Waxleaf Ligustrum, Magnolia grandiflora, Photinia, Abelia, Gardenia, Boxwood, Euonymus, Holly. Also flowering shrubs and Weeping Willow.

Visit our fields and get our prices before you buy. Special prices on carload lot shipments.

All inquiries answered promptly.

HILL SIDE NURSERY

Rt. 1 Leesburg, Tex.

LINERS, SPRING DELIVERY.

	Each
Viburnum burkwoodi, 4 to 6 ins.	\$0.12
Viburnum burkwoodi, 6 to 8 ins.	.17
Viburnum burkwoodi, 8 to 10 ins.	.21
Daphne cneorum	.12
Daphne odora	.15
Juniperus tamariscifolia, 2 to 4 ins.	.10
Juniperus tamariscifolia, 4 to 6 ins.	.15
Juniperus tamariscifolia, 6 to 8 ins.	.18
Lithospermum, (Heavenly Blue)	.15

Terms: Half of amount with order, balance C.O.D.; packing at cost, shipped express.

FOUR STAR NURSERY

Rt. 3, Box 3529 Edmonds, Wash.

All plants are extra-heavy and ready for the field.

	Per 100
Taxus cuspidata browni,	
10 to 12 ins., 3-yr. TT.	\$45.00
Taxus media hicksi,	
10 to 12 ins., 3-yr. TT.	40.00
Taxus media Vermeulen,	
15 to 18 ins., 4-yr. TT.	80.00
Taxus cuspidata capitata,	
10 to 12 ins., 3-yr. TT.	45.00
Taxus cuspidata,	
10 to 12 ins., 3-yr. TT.	40.00
Taxus media hicksi,	
6 to 8 ins., 2-yr. T.	30.00

STROHL'S NURSERY

1404 N. Anthony Blvd. Fort Wayne, Ind.

TAXUS—LARGE LINERS.

Field-grown transplants from selected cuttings, best strain.

Per 100 Per 1000

Taxus cuspidata capitata,		
12 to 18 ins.	\$60.00	\$550.00
18 to 24 ins.	70.00	650.00
Taxus media hicksi,		
18 to 24 ins.	70.00	650.00

Also B&B Taxus, upright and spreading, in landscape sizes for midwest shipment in carload lots.

BULK'S NURSERIES

Babylon, L. I., N. Y.

LINING-OUT STOCK.

1-yr. bedded.

	Per 100	Per 1000
Taxus hicksi	\$15.00	\$125.00
Taxus cuspidata	15.00	125.00
Taxus hatfieldi	17.50	150.00
Taxus brevifolia	20.00	200.00
Tsuga canadensis,		
2-yr. tr., 4 to 6 ins.	7.00	60.00
3-yr. tr., 6 to 8 ins.	11.00	100.00
4-yr. tr., 9 to 12 ins.	16.00	150.00

Complete list of liners on request.

VERKADE'S NURSERIES Wayne, N. J.

4-YR. TRANSPLANTS.

Black Hills Spruce, 6 to 10 ins.	\$15.00
Norway Spruce, 8 to 12 ins.	20.00
Colorado Blue Spruce, 4 to 10 ins.	20.00
White Pine, 6 to 12 ins.	10.00

3-YR. SEEDLINGS.

Norway Spruce, 6 to 8 ins.	\$5.00	\$35.00
Black Hills Spruce,		
6 to 8 ins.	5.00	35.00

ARTHUR CASH NURSERY

Angola, N. Y.

WELL ROOTED CUTTINGS.

Per 100

Euonymus radicans, sturdy plants from 2 1/4-in. pots	\$ 3.00
Teucrium chamaedrys	12.50

Immediate shipment.

SUNNYBROOK FARMS NURSERY

Chesterland, Ohio

NATIVE WILD FLOWERING PLANTS.

Rhododendrons, Azaleas, Kalmia, Leucothoe and Tsuga canadensis. Evergreens, perennials, shrubs, trees, orchids, ferns and vines.

Send for wholesale price list.

THE THREE LAURELS

Marshall, N. C.

CANADIAN HEMLOCK.

	Per 100
Heavy, sheared,	
18 to 24 ins., Bare root	\$ 75.00
18 to 24 ins., B&B	100.00

LAUREL PARK NURSERIES

Box 265, Hatfield Rd. Northampton, Mass.

COLLECTED HEMLOCK.

Tsuga Canadensis,	
6 to 12 ins., \$5.00 per 100, \$55.00 per 1000.	

Packing free on orders shipped this fall.

THE AIKEN NURSERIES

Putney, Vermont

Our complete list of lining-out stock covering both broad-leaved and coniferous evergreens, shrubs, etc., is now ready for mailing upon receipt of your request.

T. G. OWEN & SON, Inc. Columbus, Miss.

EVERGREENS—Continued

Plenty of Pfitzers, and good ones, too. 18 to 24 ins., \$325.00 per 100; 24 to 30 ins., \$425.00 per 100.
Euonymus patens, 15 to 18 ins., 75c ea.
Magnolia stellata, 18 to 24 ins., B&B, \$4.00 ea. 2 to 3 ft., \$5.00 ea.
 Mixed *Narcissus*, for naturalizing, \$20.00 per 1000.

BRUENING'S NURSERIES Higginsville, Mo.

NANDINA SEEDLINGS.

Ready to pot, \$20.00 per 1000, postpaid.
 DUNLAP NURSERIES
 Knoxville 16, Tenn.

FRUIT TREES

ATTENTION NURSERYMEN!

SURPLUS OF 2-YR. APPLE.
 Graded to A. A. N. Standards.
 Twelve Leading Varieties
 That Must Move This Fall.
 Now booking for fall delivery at these attractive low prices:

7/16-in. cal., 3 to 4 ft.	Each
9/16-in. cal., 4 to 5 ft.	\$0.10
11/16-in. cal., 5 to 6 ft.	.20

ALSO A LIMITED SUPPLY OF

2-YR. PEAR AND CHERRY.

Mail, Wire or Phone Your requirements.

PACK TRUE-TO-NAME NURSERY CO.

Phone: 82Y

McMinnville, Tenn.

Member of Tennessee and

Southern Nurserymen's Associations.

PECAN TREES.

Over fifty acres devoted exclusively to growing papershell pecan trees on our better rootstock. All sizes. Stake-trained, vigorous, thrifty trees with liability grown in them. Success. Mahan, Stuart, Schley, Desirable, Delmas, Western Schley, Burkett and others. Peach, plum and apricot trees, heavy caliper, dormant buds.

Write for new wholesale price list.

COCKRELL'S RIVERSIDE NURSERY

Rt. 1 Goldthwaite, Tex.

PECANS.

Stuart, Mahan, Success, Moneymaker, Moore, Burkett, Schley, Western Schley and other popular and profitable catalog items. Thomas Black and Willson Wonder English Walnuts, Eureka and Tanenashi Persimmons, Everbearing Fig Trees. Write for advance trade list.

ARP NURSERY CO.

Box 867 Tyler, Texas

GROUND COVERS

VINCA MINOR (myrtle or periwinkle)—None less than 3 years old, with good roots, 15 to 30 canes to clump, individually made up, fresh-dug, \$37.50 per 1000. Prompt shipment. Quantity orders solicited. 2 per cent cash discount. Also *Epithymum*.

H. C. WAUGH

737 Greene St. Marietta, Ohio

EUONYMUS RADICANS VEGETUS.

Strong, 1-yr. cuttings.	Per 100 Per 1000
Rooted cuttings from sand	\$12.00 \$100.00
Fall Shipment.	8.00 75.00
PLANE VIEW NURSERY	300 at 1000 rate.
	Newport, R. I.

PACHYSANDRA TERMINALIS.

Strong, 1-yr., field-grown, \$65.00 per 1000.
 2-in., potted, \$85.00 per 1000.

HILLCREST GREENHOUSES, Franklin, Pa.

HARDY PLANTS

PHLOX SUBULATA (Moss Phlox).

Large, healthy, undivided field-grown clumps. Per 10 Per 100
 Alba, pure white. \$1.50 \$12.00
 Atropurpurea, wine-red. 1.50 12.00
 Blue Hill, soft, pale blue. 1.50 12.00
 C. F. Wilson, the best blue. 1.50 12.00
 Fairy, rich lavender. 1.50 14.00
 Lilacina, lilac-blue. 1.50 12.00
 Moerhelm, deep salmon-pink. 1.50 14.00
 Rosea, bright rose. 1.50 12.00
 Vivid, vivid pink with darker eye. 1.75 15.00
 Amoena, clear pink, 6 ins. tall. 1.50 12.00
 Terms: Cash with order, or 25 per cent, balance C.O.D. Shipments begin Sept. 15.

WALTERS GARDENS

Rt. 2 Zeeland, Mich.
 Note: Formerly Knoll & Walters Perennial Farm. No change in management, just change of firm name.

DELPHINIUMS.

Field-grown in Dow-fumed soil; strong, healthy stock. 1000
 Pacific Hybrids, mixed. \$4.50 \$10.00 \$37.50
 Pacific Hybrids, named, in
 Sir Galahad, Percival,
 Summer Skies, Black
 Knight, King Arthur
 and Gulnerever or Round
 Table, mixed. 5.50 12.00 45.00
 Specially packed for safe delivery.
 Plants dug at sundown.

Other Delphiniums, see ad under Hardy

Plants.

KAZOO GOLIATH GARDENS.

Attn: Mr. Bert Van Engen,
 Kalamazoo 33, Mich.

SNYDER'S PERENNIAL SPECIALTIES.

25 at the 100 rate.	Per 100
<i>Achillea filipendula</i> , yellow.	\$2.00
<i>Alyssum saxatile compactum</i>	2.50
<i>Alyssum saxatile citrinum</i> , yellow.	2.00
<i>Anchusa myosotidiflora</i> , clean, heavy.	8.00
<i>Arabis alpina</i> Snowcap.	3.00
<i>Aster alpinus</i> , dwarf blue, spring.	4.00
<i>Aster alpinus</i> Goliath, blue, spring.	4.00
<i>Aster Star of Warburg</i> , from seed, blue.	4.00
<i>Aubrieta</i> Giant Hybrids, finest quality.	4.00

AQUILEGIA.

All long-spurred, from finest seeds.
 Blue Shades, white centers. 4.00
 Chrysanth, golden-yellow. 3.00
 Copper Red, red shades. 3.00
 Rose Queen, bright pink. 3.00
 Scott Elliott Hybrids, all colors. 3.00
 Baptisia australis, heavy plants. 4.00
 Centaurea dealbata, Rose Delight, pink. 4.00
 Centaurea montana, blue, heavy plants. 4.00

CAMPANULA.

Carpatia Alba, pure white. 3.00
Carpatia, blue. 3.00
Carpatia Dwarf Hybrids. 3.00
 Cullinmore, a larger, freer carpatia. 3.00
 Rotundifolia, Bellbella of Scotland. 3.00
 Rotundifolia olympica, larger flowers. 4.00
 CAMPANULA MEDIUM (Canterbury Bells).
 Calycanthema, in separate colors below 2.00
 Blue, Rose, Lilac, White, Mixture. 2.00
 Double, in mixture only. 2.00
 Single, in mixture only. 2.00

CARNATION GRENADIN.

Thinly-sown, bushy, colors below. 4.00
 King of the Blacks, Scarlet, Rose, White, Yellow, Mixed.
 DAISSY, Double White Swan.
 True stock, fully double, divisions. 4.00

All thinly-sown this spring, have bloomed.
 Belladonna Improved, sky-blue. 3.00
 Bellamosum Improved, deep blue. 3.00
 Blackmore & Langdon Hybrids. 3.50
 Chinese alba, pure white. 3.00
 Chinese Cambridge Blue, rich blue. 3.00
 Chinese Blue Mirror, navy blue. 3.00
 Lamartine, true strain. 4.00
 Wrexham Strain, "Hollyhock" delphinium. 4.00

DIANTHUS.

Bushy plants from finest seeds available.
 Allwood, very free, all colors. 4.00
 Crimson Beedder, all rich red. 3.00
 Deltoidea cresta, forget-me-not. 3.00
 Little Jock Hybrids, dwarf. 4.00
 Loveliness, deeply laciniated mauve. 3.00
 Plumarius, double, red and rose. 3.00
 Plumarius Highland Hybrids, brilliant. 3.00
 Plumarius Spring Beauty, double. 3.00

DIANTHUS BARBATUS (Sweet William).

Midget, single, dwarf, mixed. 3.00
 Newport Pink, salmon-pink. 2.50
 Scarlet Beauty, bright scarlet. 2.50
 Purple Beauty, deepest red. 2.50
 White, extra-large flowers. 2.50
 Mixed, full color range. 2.50

DICENTRA EXIMIA.

(Plumy Bleeding Heart.)
 Bushy plants, blooming since mid-August. 6.00
 Dietamnus fraxinella alba, white, 2-yr. 6.00
 Dietamnus fraxinella, pink, 2-yr. 6.00
 Euphorbia corollata, pure white filler. 4.00
 Galliardia aurea pura, yellow, true. 4.00
 Helianthemum murale, dwarf, mixed. 3.00

ALL WILL GIVE FULL BLOOM NEXT SUMMER.

Oldhamiana, pink, late summer and fall. 3.50
 Pacifica, pink, midsummer, heavy. 5.00
 Paniculata, common misty Baby's-breath. 3.00
 Repens rosea, pink-tinted, dwarf. 3.00
 Snow White, double, pure white. 3.50

HEUCHERA.

Sanguinea, transplanted August, 1949. 8.00
 Choice Hybrids, flat-grown, 1-yr.-old. 5.00

IBERIS SEMPERVIRENS.

(Evergreen Candytuft.)
 Iberia, from seeds. Heavy, bushy plants. 4.00
 Purity, new large flowers, very free dwarfer. From cuttings started last fall, transplanted to field rows early June. 10.00
 Snowflake, grown like Purity above. 6.00

LIATRIS.

Strong "bulbs," sure to bloom next summer.
 Calliopsis, large spike, 3rd, early. 3.00
 Longifolia punctata, September on. 3.00
 Pycnostachya, tall, August. 2.50
 Pycnostachya Early Hybrid, 2nd, early. 3.00
 Spicata, 30-in. spikes, July 1. Earliest. 3.00
 Scariosa September Glory, earlier. 4.00
 Scariosa September Glory, later. 4.00
 Lilium tenuifolium, blooming size. 2.50
 Linum flavum compactum, dwarf yellow. 4.00
 Linum narbonneense Heavenly Blue. 4.00
 Lychia chalcadonica, bright red. 3.00
 Lythrum the Beacon, from seed. 4.00
 Lythrum roseum, pink shades. 4.00
 Nepeta mussini, lavender, dwarf. 3.00
 Oenothera missouriensis, heavy plants. 4.00

PHLOX SUBULATA.

All bushy plants, started 1 year ago.
 Atropurpurea, red. 5.00
 Alexander's Favorite, large pink. 8.00
 Alexander's Sky Blue, soft blue. 8.00
 Blue Hill, standard blue. 4.00
 Dwarf Rosea, large foliage, compact. 8.00
 Emerald Cushion, blue, unique. 5.00
 Moerhelm, bright pink, excellent habit. 5.00

Continued in next column.)

AMERICAN NURSERYMAN

(Concluded from previous column.)

PLATYCODON.

Double Blue, true stock. 2-yr. Per 100 \$6.00

1-yr. 2.00

Double White, 95 per cent true. 4.00

1-yr.-old. 2.00

Blue, single, true stock. 2-yr. 4.00

White, single, 95 per cent true. 2-yr. 2.00

Shell-pink, true stock. 2-yr. \$5.00. 1-yr. 2.00

POLYANTHUS (Primula Veris Hybrids).

From finest seeds thinly sown early April.

Monarch strain, best available mixture. 5.00

Giant Crimson, rich, even color. 5.00

Giant Orange, rich shades of orange. 5.00

Giant White, a specially good strain. 5.00

Giant Yellow, rich colors, large blooms. 5.00

PRYETHRUM.

All thinly sown late April.

Double Hybrids, all colors. 5.00

Robinson's Dark Crimson, large singles. 5.00

Robinson's Hybrids, large-flowered. 4.00

Ruby Red, large singles of glowing red. 4.00

Rudbeckia purpurea, purple coneflower. 3.00

Salvia Jurialci, low-growing blue. 4.00

Scabiosa cymoides splendens, pink. 4.00

Scabiosa fischeri, bright lavender. 2.00

Sedum spurius Dragon's Blood. 2.00

Statice dumosa, silver and lavender. 2.00

Statice latifolia, misty lavender-blue. 2.00

Stokesia cyanea, large lavender-blue. 2.00

SHASTA DAISIES.

Probably the best varieties grown from seeds.

Alaska, standard, large, single. 2.50

Giant Double, double and semidouble. 5.00

King Edward VII Improved. 2.00

Marian Collier, laciniated petals. 2.00

Mount Everest. 2.00

The Speaker. 2.00

The Prince. 2.00

Thalictum, Bee's Dwarf Purple, new

English form worked up in our nursery the past five years. About two

feet, excellent for cutting or border,

always blooms Decoration day. 1-yr.

plants. 2.00

Thermopsis caroliniana, heavy plants. 6.00

Tritoma, Miracle Mixture, early. 2.00

Tritoma Pfitzer's Hybrids, red. 2.00

Verbasco Harkness' Hybrids, yellow. 3.00

Veronica Blue Candle, rich blue. 2.00

Cash with order, please.

E. J. SNYDER, West Milton, Ohio

DELPHINIUM SEEDLINGS.

We have a good supply of our usual extra-fine Delphiniums ready for September shipment. The seeds were sown last June, and as our growing season has been ideal, the stands are perfect and the plants well rooted. They will be packed by our famous packing system.

	25	50	100	1000
Belladonna	\$0.90	\$1.75	\$3.50	\$32.25
Bellamosum	.90	1.75	3.50	32.25
Chinese	.90	1.75	3.50	32.25
Lamartine	.90	1.75	3.50	32.25
Blackmore & Langdon	1.00	2.00	4.00	38.00
Wrexham	1.15	2.25	4.50	42.75

Vetterle & Reinelt Pacific Hybrids, by color:

Dark blue	1.25	2.50	5.00	47.50
Lavender pastel	1.25	2.50	5.00	47.50
Light blue	1.25	2.50	5.00	47.50
Mixed shades	1.25	2.50	5.00	47.50
Violet	1.25	2.50	5.00	47.50
White	1.25	2.50	5.00	47.50

Vetterle & Reinelt Pacific Hybrids, named

varieties:

Black Knight	1.75	3.50	7.00	66.50
Blue Bird	1.75	3.50	7.00	66.50
Blue Jay	1.75	3.50	7.00	66.50
Camellard	1.75	3.50	7.00	66.50
Galahad	1.75	3.50	7.00	66.50
Gulnerever	1.75	3.50	7.00	66.50
Percival	1.75	3.50	7.00	66.50
Summer Skies	1.75	3.50	7.00	66.50
King Arthur	1.75	3.50	7.00	66.50

1000 rate may be used when 250 or more

of one variety or color are ordered.

ALSO SEE OUR LIST OF HARDY

PLANTS ON THE OPPOSITE PAGE.

SEND FOR A COPY OF OUR CATALOG

JUST OFF THE PRESS.

RICHARDS GARDENS

"Old Homestead Brand"

Box 30 Plainwell, Mich.

CHOICE HARDY PLANTS.

Wholesale prices, each Per 10 Per 100

Campanula Blue Carpet. \$0.25 \$0.20

Dianthus Dubonnet. .25 .20

Dianthus Tiny Rubies. .20 .15

Dianthus June Carmine. .25 .20

Echinops Taplow Blue. .25 .20

Liatris Scariosa, September Glory. .25 .20

Oenothera Illumination. .25 .20

Monarda Croftway Pink. .25 .20

Write for our new trade list.

SUNNY BORDER Inc. Kensington, Conn.

SHASTA DAISIES.

Strong, field divisions. Per 100

Majestic, best large single. \$15.00

Mount Shasta, tall, double. 12.00

HARDY IVIES.

Strong, clean stock. Per 100

English, 3-in. pots. \$15.00

Baltic, 2½-in. pots. 15.00

Also *Buonymus celtica*, 2½-in. 12.00

STRATFORD GARDENS Delaware, Ohio

Pansies, perennials and rock plants in

wide variety. Send for catalog.

PITZONKA'S PANSY FARM

Bristol, Pa.

LINING-OUT HARDY PLANTS.

PERENNIALS.
New and Standard Kinds.
A most modern and complete selection.
New Wholesale List now ready.
Send for your Free Copy Now.
CARROLL GARDENS

Box 15 Westminster, Md.

Strong rooted cuttings.
Immediate shipment

Immediate shipment.
\$8.00 per 100. \$75.00 per 1000.

300 at 1000 rate.

PLANE VIEW NURSERY
Newport, R. I.

	Per 100
Dicentra spectabilis, 3 to 5-eye.....	\$25.00
Dicentra spectabilis, 8 to 8-eye and up	35.00
Dicentra eximia, 3 to 5-eye.....	15.00
Dicentra eximia, 5 to 8-eye and up....	20.00
J. HENDRIKS, Grower	Portage, Mich.

HARDY FERNS \$7.00 per 100

Ostrich, Clayton, Lady and Maidenhair.
Peonies, 35c; Iris, 10c; Phlox, 15c, any color.
STRAND NURSERY CO. Taylors Falls, Minn.

HOLLY

ILEX OPACA. Large, old, XXXX specimens, 10 to 14 ft. high, 9 to 14 ft. broad; dense over-all. Wonderful root systems (10 to 15 tons each). Expert balling by foreman. 1 to 25 yrs. experience. Well-versed females. \$65.00 per ton. 1325 Oak St., Mt. Airy, N. C. 28551. **EARLE DILAUSH, Holly Specialist.** (On Rt. 25) Robbinsville, N. J.

ILEX DECIDUA.

*Bears masses of red berries that hang all winter. Hardy, transplants well, good retail seller. 1-yr. seedlings. 6 to 12 ins. 15c. Fall or spring shipment. Heavily berried demonstration plant free with 300 and up. Free descriptive circular.

MISCELLANEOUS

Phlox, named, \$10.00 per 100. Can supply up to 10,000. Polyantha Primrose, \$10.00 per 100. Rhododendron Hybrids, red, adigs. 4 to 6 ins., 2-yr., \$35.00 per 100. Azalea Altaclearance, 4 yr. to 6 ins., 2-yr., \$35.00 per 100. The following at the nursery: Azalea mollis, 1-yr., \$8 to 12 ins., 50c; 2 to 16 ins., \$2.50 to \$6.00. Pieris japonica, 2 to 16 ins., \$2.50 to \$6.00. Medinilla, \$1.50 to \$2.00. Thalictrum, \$1.00 to \$2.00. Camellia, \$1.00 to \$2.00.

SEEDS

CHINESE CHESTNUT SEED NUTS.

Pure seeds from our hardy northern seed orchard.

	F.O.B., per lb.
5 to 10 lbs.....	80c
11 to 50 lbs.....	75c
51 to 100 lbs.....	70c
Over 100 lbs.....	65c

Also 2/3 to 3/4 ft., 2-yr. trees.
Grown from select seeds.
WHITFORD NURSERY
Farina, Ill.

MULTIFLORA ROSE SEEDS.

Clean, thorny Multiflora Rose seeds picked from thorny, upright plants of the type used for farm fencing. \$4.00 per lb.; \$3.75

in lots of 5 lbs. or over.

Order now for fresh seeds from 1950 crop.
FARMLAND IMPROVEMENT CO.
Yorkville, Ill.

Oregon-grown New Crop

Hardy Polyantha Primrose Seeds.
Newer colors, large florets.
Trade pkg., \$1.00; 7 pkgs., \$5.00.
PRIMROSE ACRES Gladstone 4. Ore.

Surplus Stock

can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

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ROSERUSHES

165 leading varieties of Standard and U. S. Patented 2-year-old, field-grown roses, heavily dusted and fertilized; state certified and inspected; world's best. Write today for our list of varieties and rock-bottom wholesale prices. Buy direct from America's largest grower of fine roses and save the difference.

ROSES.

Polyanthas (surplus).
PETER J. BOOY ROSE NURSERY
San Jacinto, Calif.

Please see our display ad on page 47.
OZARKS PLANT FARMS, Inc.
Springfield, Mo.

HARDY PLANTS.

Please write for our new list of perennial plants.

WALTERS GARDENS
Rt. 2 Zeeland, Mich.

WALTERS GARDENS

Rt. 2 Zeeland, Mich.

ROSEBUSHES—Continued

ROSEBUSHES.
THERE IS NO SUBSTITUTE FOR QUALITY.

We expect to be booked solid with a SOLD OUT sign on our office door before November 15, so if you want some of these TOP-QUALITY Rosebushes, may we urge you to place your order at once. Below is a list of our most popular varieties. We also grow about 50 of the most wanted Patented Roses (just a few of each).

RED.

Red Talleman, very prolific
Red Columbia, good cut flower
Better Times, needs no build-up
Radiance, red
Etoile de Hollande, bright red
Syracuse, vermillion
Rouge Mallerin, dark red
Poinsettia, one of the best
Christopher Stone—A Must, scarlet
Grenoble, deep red
Ami Quinard, the black rose
E. G. Hill, long-stemmed rose
Francis Scott Key, large, very double
Charles K. Douglas, very large red
Sensation, scarlet, prolific
American Beauty, old-time favorite
Red Briarcliff, extra-good
Night, almost black
Mary Hart, excellent

WHITE.

White American Beauty, pure white
Caledonia, clear white
K. A. Viktoria, cream-white
Konigin Luise, beautiful white
White Radiance, white
F. K. Druschki, a good white
Snow Queen, pure white

PINK.

Editor McFarland, brilliant pink
Briarcliff, sport of Columbia
Columbia, rose-pink
Pink Radiance, soft, even pink
Mrs. Charles Bell, shell-pink
Shell-pink Radiance, light pink
Betty Uprichard, very good
J. J. L. Mock, silver-pink
Paul Neyron, very large
Doctor, one of the best
Picture, large pink
Contrast, a good reputation

YELLOW.

Yellow Talleman, hard to beat
E. P. Thom, very good
Golden Rapture, pure
Golden Charm, yellow Talleman
Golden Dawn, deep yellow
Golden Ophelia, pure yellow
Mrs. Pierre S. DuPont, rich yellow
Sœur Therese, one of the best
Luxembourg, copper-yellow
Roslyn, lemon-yellow
Lady Hillingdon, hardy, prolific
Betty Grace Clark, sport of Luxembourg
Joanna Hill, very good
Sunburst, yellow, red edges
Yellow Condessa, good
Golden Santiago, very, very good

TWO-TONE.

Talisman, red and yellow
President Herbert Hoover, yellow and red
Edith Nellie Perkins, pink and crimson
Condessa de Santiago, copper, red and yellow

CLIMBERS.

Blaze, everblooming Paul's Scarlet
Cecile Brunner, pink Sweetheart
Talisman, red and yellow
Paul's Scarlet, showy red
Red Radiance, red
Caledonia, pure white
Mrs. Pierre S. DuPont, deep yellow
Etoile de Hollande, dark red
K. A. Viktoria, cream-white
Pink Radiance, pink
Golden Charm, yellow Talleman
Red Talleman, very good
American Beauty, red
Mary Hart, red, very prolific
Roslyn, very good, yellow
President Herbert Hoover, two-tone, red-yellow

POLYANTHA.

Cecile Brunner, pink Sweetheart
Ideal, red
Golden Salmon, salmon-red
Elsie Poulsen, pink
Kirsten Poulsen, beautiful pink
Perle d'Or, yellow
Mrs. R. M. Finch, pink
Floradora, amber-copper
Tip Top, yellow Cecile Brunner
Baby Chateau, dark red
PRICES: Bare Root, XXX, extra-heavy
Jumbo, 40¢ ea.; No. 1, extra-heavy, 35¢ ea.;
No. 1½, heavy, 27½¢ ea.; No. 2, 20¢ ea.
ROOT-WRAPPED for counter trade, add 10¢
extra per bush. (5 per cent discount on orders
of 500 to 1000, and 10 per cent discount on
1000 and up.) TERMS: Cash with order or
25 per cent deposit and balance C.O.D.
Packed in bundles of 10 of grade and variety
and 5¢ extra per bush.

OUR CUSTOMERS ARE
OUR BEST REFERENCE
NEW LONDON ROSES

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Don't Be Late!

Mail advertising copy to reach
the American Nurseryman
Monday, two weeks before date of issue.

SHRUBS AND TREES

MIMOSA.

Albizia Julibrissin.
Now booking orders for future delivery at
rock-bottom prices for clean, well grown,
healthy stock of this popular, most beauti-
ful, small, pink-flowering tree. Easy to
transplant. Grows quickly.

	Per 100	Per 1000
6 to 10 ins.	\$ 2.50	\$ 20.00
12 to 18 ins.	4.00	30.00
24 to 30 ins.	8.00	50.00
36 to 40 ins.	10.00	70.00
50 at 100 rate, 500 at 1000 rate.	17.00	100.00
3 to 4-ft. transplants.	30.00	225.00
4 to 5-ft. transplants.	65.00	500.00
6 to 7-ft. transplants.	90.00	700.00
7 to 8-ft. transplants.	90.00	700.00
Not less than 10 at 100 rate.		

RIGEL PLANT CO.
Experiment, Ga.

MIMOSA (Silktree).
Albizia Julibrissin.

	Per 100	Per 1000
6 to 12 ins.	\$ 3.50	\$ 28.00
12 to 24 ins.	8.00	70.00
2 to 3 ft.	18.00	160.00
3 to 4 ft.	25.00	230.00
4 to 5 ft., 2-yr.	35.00	330.00
5 to 6 ft., 2-yr.	55.00	500.00
6 to 7 ft., 2-yr.	75.00	700.00
300 at the 1000 rate.		

These trees are grown from the best deep
pink flowering trees that we know of in
Oklahoma. In this way we strive for perma-
nent satisfaction. This should mean a lot to
you and your customers.

Liberal Grading—No Packing Charge.

WARREN & SON'S NURSERY
Rt. 4, Box 135-C Oklahoma City, Okla.

RED JAP. MAPLE SEEDLINGS.

Selected 100 per cent red, 3-yr., sturdy.

	Per 100	Per 1000
10 to 12 ins., XXX	\$40.00	
8 to 10 ins., XXX	30.00	\$250.00
6 to 8 ins., XXX	20.00	150.00
Not these seedlings this fall and you will have salable maples by spring.		
1-yr., selected, 100 per cent red,		
5 to 8 ins., X	18.00	150.00
1-yr. Acer pal. atrop., bed run,		
5 to 8 ins.	9.00	75.00

Delivery fall or spring.
ELWOOD HUBBS
204 Delaware Ave. Palmyra, N. Y.

SPECIMEN LANDSCAPE MATERIAL.

	Each
400 Irish Juniper, 3½ ft.	\$2.25
150 Meyer Juniper, 2 ft.	2.25
400 Euonymus, European, 3 ft.	.50
400 Arctic Willow, 2½ ft.	.50
500 White Honey-suckle, 4 to 5 ft.	.50
300 Hicks Taxus, 18 ins.	1.75
50 White Pine, 3 ft.	3.00
200 Aronia Arbutifolia, 2½ to 3 ft.	.75
200 Bridal Veil, 3 ft.	.35
150 Spiraea Anthony Waterer, 2 ft.	.40
100 Dwarf Ninebark, 3 to 4 ft.	.50

TWIN NURSERIES, Prairie View, Ill.

Rosa multiflora japonica, thornless.

The full-grown strains good for budding
hedges and soil erosion control. Very hardy.
Rooted, 2-in. The thornless is very good
for budding purposes. 6 to 8 mm., \$6.00 per
100, \$40.00 per 1000.

2-yr., No. 1, 18 to 24 ins., \$12.00 per 100,
\$100.00 per 1000.

3-yr., No. 1, 2 to 3 ft., \$25.00 per 100.

9-in. cuttings, handmade, liberal count,
\$3.00 per 100, \$8.00 per 1000.

French Pussy Willow, 2-yr., 4 to 5 ft.,
\$30.00 per 100.

FINGER LAKES NURSERIES, Geneva, N. Y.

CHINESE BLIGHT-RESISTANT

CHESTNUT TREES.

Field-grown seedlings.

1 and 2-yr. trees.

	Each
6 to 12 ins.	\$0.10
12 to 18 ins.	.20
18 to 24 ins.	.35
2 to 3 ft.	.60
3 to 4 ft.	.75

5 per cent discount, cash with order.

New wholesale list now ready.

GLOBE NURSERIES

Box 249 McMinnville, Tenn.

ALL STURDY STOCK.

	Per 100	Per 1000
Euonymus paterne		
100 6 to 8 ins., XX	\$0.20	
50 8 to 12 ins., XX	.30	
50 10 to 14 ins., XX	.40	
Euonymus yedoensis		
150 8 to 10 ins., XX	.15	
Spiraea Anthony Waterer		
75 9 to 12 ins., XX	.20	
25 10 to 15 ins., XX	.30	

NORTHERN LANDSCAPE TREE FARM

Avon, Conn.

LOMBARDY POPLAR TREES, 4 to 5 ft.,
\$10.00 per 100; 6 to 8 ft., \$20.00 per 100; 8 to
10 ft., \$30.00 per 100.

CAROLINA POPLAR, 5 to 6 ft., \$12.00 per
100; 6 to 8 ft., \$25.00 per 100; 8 to 10 ft.,
\$35.00 per 100.

PONZER NURSERY

Rolla, Mo.

AMERICAN NURSERYMAN

EUROPEAN WHITE BIRCH SEEDLINGS.

We offer these in grades from 5 ins. up to
24 ins. Write for prices, stating quantity
wanted.

VILLA NURSERIES

Montavilla Sta., P. O. Box 6137
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Our complete list of lining-out stock cov-
ering both broad-leaved and coniferous ever-
greens, shrubs, etc., is now ready for mailing
upon receipt of your request.

T. G. OWEN & SON, Inc. Columbus, Miss.

VEGETABLE ROOTS

ASPARAGUS ROOTS.

Washington, extra-heavy, well graded.

	Per 100	Per 1000
1-year	\$1.50	\$10.00
2-year	2.50	18.00

ROUDEBUSH GARDENS

Rt. 3, Box 397 Dayton 3, Ohio

VINES

AMAZING NEW GRAPE.

Black Beauty, 1 to 1½-in. dia.; heavy, regu-
lar bearer; ripe in this latitude through Octo-
ber. Fine eating, raw, jelly, preserves, wine.
2-yr. \$1.50 ea.; \$125.00 per 100. 1-yr. \$1.00
ea.; \$75.00 per 100. 25 at 100 rate; min. \$3.00.
L. A. RICHARDS Newton, Ill.

SUPPLIES

DAHLIA OR TREE LABELS.

Priced per 1000 Plain Painted

3½x½ ins., notched, not wired. \$2.50 \$3.00

3½x½ ins., wired, copper. 3.50 3.50

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4x½ ins. (cartons 1000 each). 3.00 3.20

5x½ ins. (cartons 1000 each). 3.30 3.80

6x½ ins. (cartons 1000 each). 3.50 4.00

Priced per carton.

8x½ ins. (cartons 500 each). 2.50 2.00

10x½ ins. (cartons 500 each). 3.00 3.50

GARDEN STAKES.

Priced per carton.

8x ¾ ins. (cartons 250 each). 2.00 2.25

10x ¾ ins. (cartons 250 each). 2.25 2.50

12x1½ ins. (cartons 100 each). 1.50 1.75

Our labels are perfectly white and smooth
on both sides and are pronounced by growers
the best and most economical.

YOHO & HOOKER Youngstown 2, Ohio

Made from a good grade of Southern Yellow
Pine, since Cypress is not available.
Standard specifications, inside measurements.

KNOCK-DOWN FLATS.

16x12x2½ \$18.82 per 100

16x14x3 24.98 per 100

20x14x2½ 24.56 per 100

20x14x3 28.68 per 100

22½x16x2½ 28.14 per 100

22½x16x3 32.63 per 100

All other sizes quoted on request. Prices
F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight
to any point is a small item per Flat. Our
Flats are the best. Why pay more? Our
quality guaranteed. Prompt shipment, any
quantity. Attach check to order.

We make mixed shipments of flats, plant
boxes and spray boards.

HIGHTOWER BOX & TANK CO.

Birmingham, Ala.

Now is the time to build new low-cost
shade houses, or to replace your old worn-out
lath or slat houses with Brand-New Low-
Cost Heavy Steel Wire Netting. This material
is made of 16-gauge steel wire 2x5-in.
mesh, galvanized with steel wool and coated
with high-grade enamel. Each roll is 75 ft.
long by 6 ft. wide, containing 450 sq. ft. Inex-
pensive and easy-to-construct lath houses
built with this netting provide uniform shade
ideal for Azaleas, Camellias and for all other
plants. Available for immediate shipment.
Write for descriptive folder and prices to
cover any quantity you may need from one
roll to carlot shipments.

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P. O. Box 946 3333 Gentilly Blvd.
Columbus, Miss. New Orleans, La.

ELECTRIC PROPAGATING KITS FOR

GREENHOUSE BENCHES OR HOTBEDS.

Each contains long-lasting HEATSUM
CABLE, SOIL THERMOSTAT, PILOT
LAMP AND THERMOMETER.

Sq. ft.	Length and	Price
Unit heated Watts	No. Units	
"A" 20	200 110 1 60-ft.	\$14.00
"B" 40	400 110 2 60-ft.	19.50
"D" 80	800 110 1 300-ft.	41.00

All prices F.O.B. Seattle.

COLDFRAME FROST PROTECTION.

Same equipment will protect 50 per cent
more area. LITERATURE ON REQUEST.

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1539 E. 103rd St. Seattle 55, Wash.

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MOSS.

Clean, long-fibered, solidly packed in bur-
dipped or wired bales. Standard size,
direct from drying beds. None better.

Trucked when feasible.

WARRENS MOSS CO., Box 7, Warrens, Wis.

COLCHICINE—THE MIRACLE DRUG. which produced the famous Tetra-Snapdragons, giant fruits and berries, is creating marvelous new plants, forerunners of vastly improved varieties. You can now experiment with this chemical means of creating new forms of fruits, berries and flowers—all plants. The method is simple and easy. Complete kit, Colchicine solution and salve, ready-to-use, together with needed accessories and directions, booklet, only \$5.00 postpaid. No C.O.D.
ROMAINE B. WARE Box N, Canby, Ore.

MULCH.
 Forest Primeval Mulch and Soil Builder. For mulching old and new lawns, evergreens, rock gardens, perennial flower beds, rose-bushes and other plants. Nothing need be added to stimulate plant growth. One 100-lb. bag of mulch will cover 100 sq. ft. of surface. Instructions furnished with each bag. 100-lb. bag, \$1.50; 5 bags, \$7.00; 10 bags, \$12.00; ton, \$24.00. F.O.B. Jasper, Ind.
 Prepared by
WILSON NURSERIES Jasper, Ind.

MINNESOTA WHITE CEDAR FLATS.
 12x16x2 1/2" \$18.25 per 100
 14x20x2 1/2" 22.00 per 100
 14x20x3 1/2" 25.00 per 100
 Other sizes quoted on request. Also crating and other lumber. Aspen and Pine. F.O.B. Cook, Minn. Please attach check.
H. C. HILL & SONS, Cook, Minn.

NURSERY REQUISITES.
 Budding, Grafting Supplies, "TRE-TEX," Hydrometers, Hygrometers, Magnifiers, Pruning and Spraying Equipment, Ladders.
 Catalog on request.
 Since 1900.
TYSON ORCHARD SERVICE
 Flora Dale (Adams County), Pa.

PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Blotters, Folders. Samples sent.
J. GARLAND HILL, Dept. A, Seaford, Del.

Marsh Hay, wire-baled, \$12.00 per ton.
KOPFF & WECKWORTH
 Beaver Dam, Wis.

PAY LESS FOR WOOD LABELS. High quality, fully guaranteed. Write for prices and samples. **ANTHONY & CO., Escanaba, Mich.**

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WANTED—EVERGREENS.
 12 to 18 inches. Bare roots.
ARTHUR V. LEY
 La Plata, Md.

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THE BOOK OF SHRUBS,
 by A. C. Hotte, \$4.00.

PROPAGATION OF PLANTS,
 by M. G. Kains and L. M. McQuesten, \$4.00.

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HOW TO GROW ROSES,
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AMERICAN NURSERYMAN
 343 South Dearborn Chicago 4, Ill.

PLANT NOTES.

[Continued from page 24.]

refer to "Hortus" and find that *Iris flavissima* is what present-day botanists call the plant that we of the old school knew as *I. arenaria*, the sand iris. Correvon treats the two names as representing two distinct species, *I. arenaria* being a 4-inch plant from the Balkans, and *I. flavissima* an 8-inch plant from Siberia. Bailey's

"Standard Cyclopedia of Horticulture" says, "*I. arenaria* is the Hungarian representative of *I. flavissima*. It is smaller than *I. flavissima*, but otherwise scarcely distinct." So many definitions are confusing. The tall form may appear in American trade; of that I cannot speak, because I have never grown that kind. The following cultural notes are based on my experience with the plant that grows four or five inches in height:

As the common name indicates, *I. flavissima* is a sand-loving plant. And probably from that is derived the story one hears to the effect that the species is both short-lived and difficult. After one learns to give it a rich diet underneath the top three or four inches of sand, one has all cultural problems solved. As I remember, best results came from digging out about a foot of old soil, thoroughly enriching the bottom eight inches with well rotted manure and bone meal and then planting the rhizomes in the top four inches of sand. A plant difficult to grow? Yes!

Whether or not the results justify the effort is for each person to decide. Personally, I think they do. It is true that the flowering season is short and that individual plants are spasmodic in their performance, usually blooming on alternate days. The entire blooming period covers about two weeks in late April or early May, depending upon the season's vagaries. The casual gardener might insist that such a fleeting season was not worth the effort, while the enthusiast will reply that the plant's glorious golden color, not golden by courtesy, but the real thing, is sufficient reward.

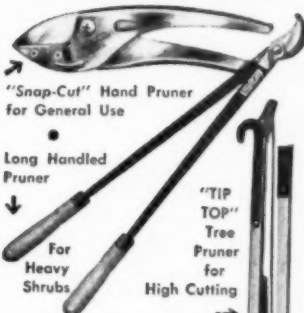
Double German Catchfly.

Despite the fact that the double German catchfly, *Lychnis viscaria splendens flore-pleno*, is a plant that has been in the trade a long time, and despite its harsh color, which some gardeners assert they dislike, you are likely to find the species is one of the best money-makers in your schedule. I think one reason that is true is that many present-day gardeners have never seen the plant; another reason, no doubt, is that its fully double flowers remind everyone of carnations. When customers are assured that the plant is indestructible in any sunny, well drained situation, that it thrives best in rather poor soil and that it needs little attention, they commence to unloose the purse strings.

The plant's color, a red-purple or, perhaps more euphoniously, a deep rosy-red, is really not so bad as it

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sounds, though the fastidious gardener will likely want to use care in selecting its associates. Its height of a foot to fifteen inches, depending upon the soil's fertility, makes it acceptable for many roles in borders, and it is not out of place in larger rock gardens.

The double German catchfly is gratifyingly easy to propagate, as it is to grow afterward, and only requires pulling the tufts apart, with a bit of the old root attached to each piece. These pieces, planted in a frame, kept under about half shade and watered as needed, are usually rooted within three weeks when they are ready to be lined out.

Saxifraga Densa.

Because I am not a botanist, I do not make it a practice to identify plants. However, an encrusted saxifrage was sent to me that was so patently false that I can tell the inquirer without faltering that it is not *Saxifraga densa*, as he has labeled it. This is not the first time, either, that I have seen the plant under that label; so it must be fairly well distributed under the incorrect name. Before the plant becomes more firmly established under that name, attention should be called to the fact that it is traveling under false colors. That it is not *S. densa*, as understood by botanists, is as plain as anything in plant nomenclature can be, for that name is correctly applied to a form of *S. moschata*, which, in turn, is one of the mossies. The plant under consideration is encrusted and resembles in most ways a form of *S. aizoon* that has been in this garden under several names. I have no idea what it should be called, but I am sure that the species is not *S. densa*. May I suggest that the inquirer send a flowering specimen to one of our good herbariums, such as the New York Botanical Garden, Bronx, N. Y., or the Bailey Herbarium, Ithaca, N. Y., for positive identification?

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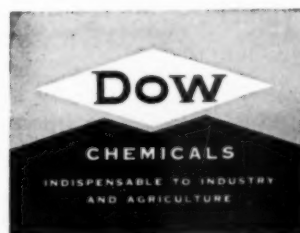
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TEXAS CONVENTION.

[Continued from page 12.]

to erect a miniature house front, with landscaped grounds, so that the customers can see just how a planting should look. Sell homeowners the idea of obtaining an FHA loan to relandscape their homes.

Nurserymen often lack attractive, illustrative signs to help sell their stock. A picture speaks 10,000 words, Mr. Past reminded his listeners, and he urged them to use beautiful pictures in displays. One good method for merchandising roses is to set vases of roses on a series of tables and put laminated pictures above the vases. Customers can look around and pick out what they want. This idea can be expanded for all varieties of nursery stock. An attractive, colored picture will help to sell stock the year around.

Create enthusiasm in your customers for beautiful flowers and shrubs. Nurserymen have let garden clubs stage most flower shows, but retail nurseries would profit from giving similar shows. The speaker cited the bougainvillea shows of the Rio Grande valley and the Texas rose festival at Tyler as good promotional work.

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growing them help also. Customers want new ideas for their gardens. And just as new models of cars help the automotive industry, so will new plants help the nursery industry. Customers are waiting for something new. Advertise and cooperate with other nurserymen for such results; the All-America roses sold after they were advertised by all nurserymen. Also, something new will help the morale of the salesmen who must have enthusiasm to do their jobs.

In discussing ways of extending the nursery season, Mr. Past suggested building a garden supply store to be operated in connection with the retail nursery. Nurserymen are persons most qualified to sell garden materials, not birdhouses, but practical and useful things for making a better garden. When a plant is sold, the proper fertilizer should go with it to insure a steady customer. Try to assure the success of the plants you sell. A garden supply store will help do this. Also, if there are displays of perennials or small flowering shrubs in full bloom, it is hard for a customer to resist buying them. A boost for summer business is large containers of flowering plants.

In speaking of prices, Mr. Past said that excellent quality sold with proper representation deserves good prices. Present merchandise well, have courteous salesmen and ask a good price.

Improved Nursery Methods.

Recent nursery developments in Texas were discussed by Prof. A. F. DeWerth, of the department of floriculture and landscape art at Texas A. and M. College. He pointed out that the nursery industry in Texas has continued to grow. Americans expect progress, and each new radio, car, television set or landscape job is expected to be better than last year's model. The worthy "Plant America" movement is part of our development, he said.

The most important problems dealing with ornamentals in the nursery today are production, storage, sales and maintenance, said Professor DeWerth. Building up the soil with sod crops or mulches, sod crops preferred, is an important aid to production. Parathion, at the rate of one and one-half pounds to 100 gallons of water, gives excellent control of mealy bug, bagworm and red spider, and C-954 was suggested for control of red spider. Of the newer insecticides, Lindane, gamma isomer of BHC, is used for aphids, beetles and caterpillars; Toxaphene, for

grasshoppers, crickets, cutworms, thrips, leaf miners and red spiders, and Chlordane is best for controlling roaches and ants.

The best storage temperature for roses is now believed to be 32 to 36 degrees Fahrenheit, and quick freezing shows promise, he said. Budding is now rapidly taking the place of grafting, although many improvements have been made recently in grafting methods. Grafts are now laid straight up, and plunging material probably will not be used in the future.

In an effort to help solve the problem of having just enough stock on hand to supply the demand with nothing left over, Professor DeWerth made some pertinent, seasonal selling suggestions. He advocated establishing an opening date at the nursery. Everything evolves around the date when the season actually opens. Anticipate the peak of the season. Try to determine the date when the demand will decline; then start reducing the supply of stock. Have a selling theme which creates an incentive to buy immediately.

Selling Pointers.

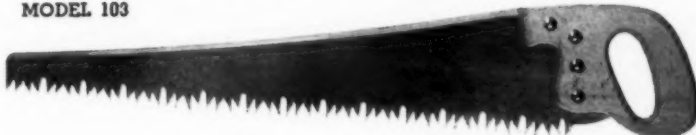
Professor DeWerth mentioned some of the points in a list he had made up of twenty rules for selling in the nursery. They include: Approaching customers correctly. When a customer enters a nursery, he must be waited on as promptly as possible. The owner or his salesman must be courteous in approaching and greeting the customer, and, if there are other customers, one must acknowledge the newcomer's presence to let him know that his entrance has been noted. By all means smile. And serve customers in order; never leave one unsold customer to wait upon another. If a customer's name is known, say, "Good morning, Mr. Jones. If his name is not known, "Good morning, sir," is an acceptable greeting. Be polite and cheerful. While the customer is in the nursery, show an interest in him.

Every successful salesperson knows his merchandise. Handle stock with care. Do not throw it around, no matter how sturdy it may be. You cannot be truly successful unless you are enthusiastic about the work. Never jeopardize the good will of a customer, no matter what the reason may be, because it is difficult to regain a lost customer. Above all else, never argue with a customer. Tell customers what to do instead of what not to do. Instead of saying "no," say, "yes, but," and then give the nurseryman's side of the story. The best way to hold a customer is to give

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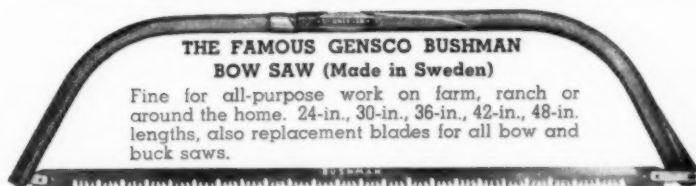
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him his money's worth. Two of the best ways to make new customers are to make prospective customers realize that their business is wanted and to please them in every way possible. You can smile over the telephone as easily as when you deal with a customer personally. Keep up to date. Know what is going on that is new in the industry. Price tags on merchandise give the customer added confidence. A nursery of pleasing interior arrangement will increase sales. Bedding plants on a raised table will sell better than from the ground. In the nursery business it is easy to be conspicuous through cleanliness.

Some of the salient points brought out in the report of the research and educational program at the Texas A. and M. College were that the future of the industry depends upon training young men; that college training is not vocational training for job operations, and that some practical application be given to the students who lack experience.

Research problems now under way or being contemplated are Dallas grass controls, testing of insecticides and fungicides, expedient plant breeding, propagation studies, soil testing and analysis, lath house studies and cultural practices with various nursery crops.

Helpful Publications.

Among the newer publications suggested were "Diseases and Pests of Ornamental Plants," published by Ronald Press, New York; "Floriculture, Fundamentals and Practices," McGraw-Hill, New York; "Manual of Cultivated Plants," Macmillan, New York, and "Woody Plant Seed Manual," Superintendent of Documents, United States Government Printing Office, Washington, D. C. Among periodicals suggested were the American Nurseryman, American Nurseryman Publishing Co., Chicago; Arnoldia, Arnold Arbo-

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return, Jamaica Plain, Mass., and the Brooklyn Botanic Garden Record, Plants and Gardens, Brooklyn Botanic Garden, Brooklyn, N. Y.

Architects Cite Landscape Needs.

"Plant Material Needs of the Landscape Architect" was the subject of a talk by Ralph Gunn, landscape architect of Houston. To broaden the scope of his subject, Mr. Gunn invited three landscape architects to assist him; they were Durward H. Thompson, Corpus Christi; Raymond Hill, Victoria, and Theodore Daniels, Athens. These specialists reported that there had been a definite increase in the demand for hardy plants requiring little maintenance; these are needed for industrial plantings. Needed, also, are cheaper plants for federal housing projects. Expansive development of highways and parks also increases the need for more hardy plants. There is a shortage in 8 to 10-foot trees, and this same shortage was reported in most areas recently visited by Mr. Gunn. Four current needs are plants for low-cost housing projects; plants for contemporary homes in the \$50,000 group; smaller plants for the specialized gardens of smaller homes, and fool-proof plants for industrial plantings. All four speakers reported a shortage

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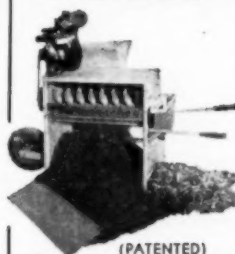
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Grinds, or Mixes, or Screens

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of large stock and emphasized the need for studying the market and conducting business in such an ethical way as to build up the industry.

Standardize Business Procedures.

In his talk on "Profit and Expense Control and Organization in the Nursery Industry," Hugh Wolfe gave a clear outline of the correct procedure for nurserymen to follow in ascertaining the essential facts about their business. He used a hypothetical case to illustrate production, distribution and management, which the nurseryman could apply to their own businesses. Departmental heads are most important. Everything done by a company should have the approval of one man if proper checking of stock is to be maintained. Advertising and sales promotion programs are good to have, but an adequate program is necessary to obtain the proper benefits. Production costs and expense of distribution were illustrated on a blackboard.

A. A. N. Speaker.

A message from the American Association of Nurserymen was given by Curtis H. Porterfield, administrative assistant of the A. A. N. He noted the increase in membership in the national association and said that Texas had secured more new members in the A. A. N. the past year than any other state.

Turning to the subject of merchandising, he pointed out that it is necessary to show beautiful pictures of roses posted near dormant rose plants to suggest the possibilities of a beautiful flower garden to customers when they are shopping for rose-bushes for their gardens, instead of displaying just the dormant rose-bush. Another suggestion was that a nurseryman should be a climate control expert in his town. He should know different types of cooling systems and other new improvements that will make the consumers' homes more comfortable and beautiful.

Next Convention at San Antonio.

Reports of special committees and the election of new officers concluded the Wednesday morning session. Robert Baker, reporting for Oscar Gray, chairman of the resolutions committee, said that plans were being made to rewrite the Texas floral and nursery laws and that legal assistance for this work had been secured. A resolution to this effect was passed, as well as a resolution calling for closer inspection by state and federal authorities on the threat of

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the citrus black fly infestation. Mr. Baker thanked Frank Cornelius, convention chairman, and other persons responsible for the excellent convention, the press for the publicity it had given to the meeting and all the exhibitors and advertisers for their fine cooperation during the convention. Before the session adjourned, President Ramsey announced that the 1951 convention would be held at San Antonio.

At the luncheon at the hotel Wednesday noon, Vice-president Donald King presided and presented Raymond Hill, who introduced the principal speaker, Mrs. Betty Bradford, lecturer, landscape architect and writer from Victoria. Since other phases of the nursery business had been discussed at the convention, Mrs. Bradford discussed soil and stated that it is better to buy a 10-cent plant and dig a \$1 hole for it than to buy a \$1 plant and dig a 10-cent hole for it. Correctly balanced soil is most essential to plant growth. Mrs. Bradford suggested that the Texas association set up a soil-testing station where quick service could be secured for a small fee; that it employ a soil chemist for this testing, and that it work out some process for tree feeding. She suggested the use of a small hand auger for digging holes, instead of a crowbar, so that the soil in the hole will be lighter, and food can more easily reach the root system. She said to break up the soil for good drainage; to use some sort of liquidifier, and to obtain a good liquid food. All nurserymen should share their knowledge with other nurserymen. College short courses help, Mrs. Bradford concluded.

Entertainment Features.

Outstanding entertainment features provided for the conventioners were planned by Frank Cornelius, chairman of the convention arrangements committee, who also made arrangements for the excellent food which included T-bone steaks.

First on the list of activities was a barbecue and dance Monday evening at the Blossom Heath night club. All parts of this program were enjoyable, with the informal entertainment of the floor show carrying off top honors. A sight-seeing tour highlighted the program Tuesday. Five special busses took delegates through the residential areas of the city, via the new Rice stadium, to the ship channel and through some of the industrial sections.

The Houston Landscape and Nurserymen's Association was host at the cocktail hour in the South

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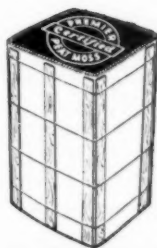
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Tops in quality and packing. 6 sizes for every need.

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Available in various sizes from your nearest part.

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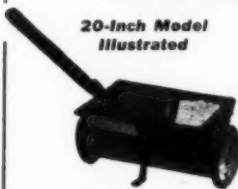
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20-Inch Model
Illustrated



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- Our biggest selling model
- Steel construction
- Re-inforced hopper
- Spreading width—22 ins.
- Capacity of hopper—40 lbs.

Saves hours of digging time . . . costly labor

NOW! Plant heavier, wider trees and shrubbery with the **EXTRA-WIDE, 18 to 24-in diameter ROPER Digger**



Super High-speed Model, \$200 — includes attachments for tractor or jeep and any size auger (8 to 24 ins. in diameter).
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This rugged, durable Roper Digger works perfectly in shale, stony clay, sandstone, any tough soil. Easily installed by one man in 5 minutes; fits any jeep or tractor. Cuts planting and transplanting time way down.

NO SWING OR SWAY . . . Stays rigid while digging . . . digs straight or at any angle, adjustable for hillside digging.

NO WOBBLING or breaking . . . Safety shear pin is at universal and is easily replaced in field. Three models to choose from that dig up to 42-in. holes; from 8 to 24 ins. in diameter.

Write for free information and name of nearest dealer. **FULL YEAR GUARANTEE** on all parts and workmanship . . .

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(All-weather)



3 1/2" x 3/4"

- Patented cardboard backing permits easy embossing with ordinary lead pencil.
- Heavy eyelet. Copper-wired.
- Attractive silver Aluminum, backed with yellow cardboard.
- Inexpensively priced:

1000 for \$11.50
500 for 7.50
250 for 4.50
100 for 2.00

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For Nurserymen

DAYTON FRUIT TREE LABEL CO.

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NATURAL RAFFIA COLORED
DISPLAY GRASS MATS
CUT GRASS

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Established 1909

American room of the Rice hotel, following the excursion trip.

Good food, the awarding of trophies and excellent entertainment that included dancing highlighted the banquet Tuesday evening in the Crystal room of the hotel. R. P. Suggs, Suggs Landscape Co., Houston, presented the membership award, a United States Treasury bond, to M. H. Black, Black Nursery, Orange. This award is given each year to the nurseryman who brings the most members into the organization during the year. The Arp Nursery Co. award, a beautiful silver trophy, was given to Eugene Howard, Jr., Howards Montopolis Nursery, Austin, because of his outstanding work on the short courses at Texas A. and M. College. Oscar Branch, Fort Worth, who held the award last year, made the presentation.

Recognition was paid to Mrs. S. Aria, of the Ellington Nursery & Floral, Houston, because of her untiring efforts in collecting large sums of money through her church for church buildings and other missionary work. It was Mrs. Aria who designed the significant and attractive centerpiece for the speakers' table at the banquet. A perfect replica of the San Jacinto memorial, near Houston, was made of Styrofoam and set in a bed of Talisman roses to represent the base of the monument. More than 200 roses sent from Tyler by the Texas Rose Festival Association were also made into centerpieces by Mr. and Mrs. S. Aria. C. J. Lauden, Tyler, president of the Texas Rose Festival Association, introduced the queen of the thirteenth annual Texas rose festival, Jill King, at the banquet Tuesday evening. Rene Casadaban presented gardenias to the ladies attending the banquet. Following the introduction of prominent members and their guests, President Ramsey introduced Richard Bloss, president of the Oklahoma association, who introduced Oklahoma nurserymen present. Groups from other states were presented, also.

Trade Exhibits.

Exhibitors who had displays were Aldridge Nursery, Von Ormy, Tex.; Al-Tex Nursery, Alvin, Tex.; Arp Nursery Co., Tyler, Tex.; Black Nursery, Orange, Tex.; Bradshaw Nursery, League City, Tex.; Breedlove Nurseries, Tyler, Tex.; Cockrell's Riverside Fruit Farms & Nursery, Goldthwaite, Tex.; Dogwood Hill Nursery, Folsom, La.; Ellington Nursery & Floral, Houston, Tex.; Folsom Nursery, Folsom, La.;

The PRESTO FLOWER POT WASHER

Improved for Added Efficiency

ACCEPTED AND USED by foremost state and federal experiment stations, leading greenhouses and nurseries. In use for 25 years.

DESIGNED THROUGHOUT FOR LONG LIFE. Leakproof ball bearings—No eccentric vibration—Perfect automatic alignment of brushes—Valve-regulated water supply.

SIMPLE OPERATION—one motion to clean inside of pot—one motion to clean outside. Wash 1000 pots per hour.

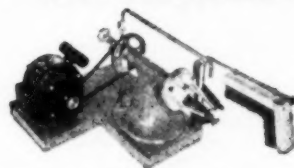
PRESTO-CLEAN means clean of dirt, roots, mold and all debris—inside and outside—that means profit in your pocket.

Machine complete with motor and full set of brushes for cleaning 2 to 7-in. pots for only \$137.50 F.O.B. Cleveland, Ohio.

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HESS' NURSERIES, MOUNTAIN VIEW, N. J., growers of choice lining-out stock for thirty years report:

"The PRESTO has paid for itself many times over by minimizing infections and assuring quick removal of plants for shipment. We could not do without it."

DON'T DELAY! — ORDER NOW!

Hill's Nursery, Victoria, Tex.; Hillside Nursery, Folsom, La.; Hope Nursery, Scottsville, Tex.; Hoyt Nursery, Grapevine, Tex.; Monrovia Nursery Co., Monrovia, Calif.; Ozark Nursery Co., Tahlequah, Okla.; Plains Nurserymen's Association, Midland, Tex.; Pletchers Florist & Nursery Co., Harlingen, Tex.; Rainey's Pecan Nursery, San Angelo, Tex.; Ramsey's Austin Nursery, Austin, Tex.; Schilling's Nursery, Loranger, La.; C. G. Simon Nursery, Lafayette, La.; Southwestern Louisiana Nurserymen's Association; Storm Nursery, Premont, Tex.; Suggs Landscape Co., Houston, Tex.; Verhalen Nursery Co., Scottsville, Tex.; Wolfe Nursery, Stephenville, Tex.; Whiterock Nursery, Crockett, Tex.; Paxton Davis Greenhouses, Dickinson, Tex.; Wrightwood Floral Supplies, Houston, Tex.; Bactex Co., Dallas, Tex.; Lone Star Peat Moss Co., Dallas, Tex.; Red Stag Leaf Mold Co., Hondo, Tex., and Rogers Grain Co., Houston, Tex.

Texas Landscape Association.

A preconvention meeting of the Texas Landscape Association was held August 20 in the air-conditioned offices of the Mancill Allen Nursery, Houston, with President Mancill Allen presiding.

New officers elected were Ralph Gunn, Houston, president; Durward Thompson, Corpus Christi, vice-president, and Theodore S. Daniels, Athens, secretary-treasurer. Elected to the executive board were Donald King, Lubbock; Steve Brady, Fort Worth; George Pletcher, Harlingen; Eugene Howard, Jr., Austin; Raymond Mosty, Center Point, and Mancill Allen, Houston.

Objectives of the association were outlined as follows: To provide a medium in which members may meet and discuss current problems; to promote legislative action that will benefit the industry; to exchange

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Builds Sales, Profits and Satisfied Customers.

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THE PROPER TWINE FOR EVERY NURSERY USE

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"Rite in the Rain"

(Trade-mark Reg.)
brand

(We are sole distributors.)
Made from highest-quality tagboard.

Use any ordinary pencil.
Rain or shine, writing stays on.
In sheets of 20.

Can be used in typewriter.
Three lengths.

8 x 5/8 ins., 1000 per pkg., \$2.50

Per 5000 lots, \$2.25 per 1000.

7 x 5/8 ins., 1000 per pkg., \$2.00

Per 5000 lots, \$1.85 per 1000.

6 x 5/8 ins., 1000 per pkg., \$1.50

Per 5000 lots, \$1.40 per 1000.

Prices for larger quantities

quoted on request.

Prices F.O.B., Portland, Ore.

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(Please add 10% to cover postage
or transportation charges.)

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Wood Tree

Pot and Garden Labels

Goodrich Rubber Budding Strips

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Squares and Rolls

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MESH COTTON NET SQUARES

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BENJAMIN CHASE
COMPANY
DERRY, N. H.

FERTO-POTS

Made of Cow Manure—Plant Eats Pot.

LAWN-SEED-FERTO-SOIL.

Fertilized, Ready to Use.

Just Sprinkle on.

HEN-FERT-NURF; COW MANURE;

ROSE FOOD; 2,4-D WEED-KILL.

FERTILIZER; BONE.

Private Brands Packaged.

ALLEN CO., Mfr. Pittstown, N. J.

ideas and to help raise the standards of efficiency and ethics in the organization; to promote further use and to find new outlets for plant material; to serve the best interests of members through close cooperation; to call the attention of state and federal agencies, particularly those authorized to award federal contracts in Texas, to the qualifications of members, and to sponsor an educational program.

Eugene Howard, Jr., was appointed chairman of the committee to work out details of incorporation and to write a charter for the organization.

The meeting was informal and consisted of an enthusiastic round-table discussion of current problems of the industry, an exchange of ideas and plans for strengthening the organization. Refreshments were served by the host

A. A. N. Chapter Elects.

Immediately following the luncheon Wednesday there was a meeting of Texas chapter 25 of the American Association of Nurserymen, to which A. A. N. members from other chapters were invited.

J. B. Baker, Jr., Baker Bros. Nursery, Fort Worth, is president of chapter 25. Delegates elected to the board of governors were L. A. ("Slick") Dean, Arp Nursery Co., Tyler, and James Fitzpatrick, Texas Nursery Co., Sherman. Alternates were George Pletcher, Pletchers Florist & Nursery Co., Harlingen, and Ralph Griffing, Griffing Nurseries, Beaumont. James Lauden, Tyler, and Hugh Wolfe, Wolfe Nursery, Stephenville, will continue in office for another year. These delegates will represent chapter 25 at the next A. A. N. convention.

President Baker presided and introduced the various speakers. James Lauden, Tyler, praised Steve Verhalen for his work on the publicity committee, members of which made a study of what material to plant and where it should be planted. He spoke of the good the A. A. N. has done and the dues and assessments that have been set aside for publicity work. The Texas rose festival, garden club shows and other similar exhibits should help the industry fit in with the large industrial expansion now in evidence throughout the country.

Clark Kidd, Arp Nursery Co., Tyler, gave an interesting and informative summary of the work of the A. A. N. publicity committee last year. He substituted for Steve Verhalen, Scottsville, who is regional chairman of this committee.

AMERICAN NURSERYMAN

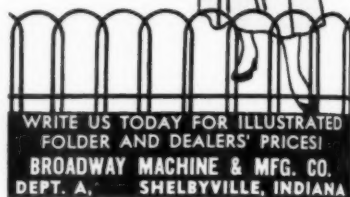
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the friendly FENCE

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Available in
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BROADWAY MACHINE & MFG. CO.
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IT COSTS NO MORE
(and in most instances less)

FOR OUR PACKING OF
**Nursery Burlap
Squares and Rolls**

Write for prices and samples.

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MADAGASCAR in A. A.
West coast and X. X. Superior

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**GOODRICH
BUDDING STRIPS**

Write for prices

THOMAS B. MEEHAN CO.
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ROUGH BROTHERS

Quality Greenhouses

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2% cash discount for orders up to \$1,500.00 from now to December 1, 1950

5% cash discount for orders of \$1,500.00 and more from now to December 1, 1950

10% cash discount for orders of \$2,500.00 and more from now to December 1, 1950

BERBERIS ATROPURPUREA.

Red Barberry.		
2-yr. trans.	Per 100	Per 1000
15 to 18 ins.	\$25.00	\$200.00
18 to 24 ins.	30.00	250.00
24 to 30 ins.	35.00	300.00

BERBERIS THUNBERGI.

Green Barberry.		
2-yr. trans.		
15 to 18 ins.	20.00	150.00
18 to 24 ins.	25.00	200.00
24 to 30 ins.	30.00	250.00

BERBERIS THUNBERGI.

Green Barberry.		
2-yr. untr.		
10 to 12 ins.		30.00
12 to 15 ins.		50.00
15 to 18 ins.		60.00
18 to 24 ins.		80.00

Write for special quantity prices on 10,000 and up.

TSUGA CANADENSIS, Specimens.

Canada Hemlock.	Each	Each
	per 10	per 100
2 to 3 ft., B&B, heavy.	\$ 3.10	\$ 3.00
3 to 4 ft., B&B, heavy.	4.10	4.00
4 to 5 ft., B&B, heavy.	6.10	6.00
5 to 6 ft., B&B, heavy.	10.10	10.00

JUNIPERUS CHINENSIS PFITZERIANA.

Pfitzer Juniper.		
15 to 18 ins., B&B.	2.60	2.50

JUNIPERUS EXCELSA STRICTA.

Green Juniper.		
18 to 24 ins., B&B.	2.60	2.50
24 to 30 ins., B&B.	3.10	3.00

COLORADO BLUE SPRUCE.

30 to 36 ins., blue.	4.10	4.00
30 to 36 ins., green.	3.10	3.00
4 to 5 ft., blue.	8.10	8.00
5 to 6 ft., blue.	10.10	10.00

THUJA OCCIDENTALIS PYRAMIDALIS.

Pyramidal Arborvitae.		
2 to 3 ft., B&B.	2.60	2.50
3 to 4 ft., B&B.	3.10	3.00
4 to 5 ft., B&B.	4.10	4.00
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American Arborvitae.		
3 to 4 ft., B&B.	3.10	3.00
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THUJA OCCIDENTALIS GLOBOSA.

Globe Arborvitae.	Each	Each
	per 10	per 100
18 to 24 ins., B&B.	\$ 2.10	\$2.00
24 to 30 ins., B&B.	2.60	2.50

TAXUS CUSPIDATA CAPITATA.

Upright Yew.		
24 to 30 ins., B&B.	4.10	4.00
30 to 36 ins., B&B.	5.10	5.00
36 to 42 ins., B&B.	6.10	6.00
42 to 48 ins., B&B.	10.00	...
48 to 54 ins., B&B.	15.00	...

TAXUS CUSPIDATA.

Spreading Yew.		
18 to 24 ins., B&B.	3.10	3.00
24 to 30 ins., B&B.	4.10	4.00
30 to 36 ins., B&B.	5.10	5.00

TAXUS HICKSI.

Hicks' Yew.		
24 to 30 ins.	4.10	4.00
30 to 36 ins.	5.10	5.00
36 to 42 ins.	6.10	6.00

TAXUS HATFIELDI.

Hatfield Yew.		
24 to 30 ins.	4.10	4.00
30 to 36 ins.	5.10	5.00

TAXUS INTERMEDIA.

18 to 24 ins., spread.	3.60	3.50
24 to 30 ins., spread.	4.60	4.50

TAXUS BREVIFOLIA.

Spreading Yew.		
15 to 18 ins., B&B.	4.10	4.00

RETINOSPORA PLUMOSA.

Plumosa.		
24 to 30 ins., B&B.	2.10	2.00
30 to 36 ins., B&B.	2.60	2.50
36 to 42 ins., B&B.	3.10	3.00

RETINOSPORA PLUMOSA.

Plumosa Aurea.		
24 to 30 ins., B&B.	2.10	2.00
30 to 36 ins., B&B.	2.60	2.50

RHODODENDRON CATAWBIENSE.

18 to 24 ins.	3.10	3.00
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RHODODENDRON MAXIMUM.

18 to 24 ins.	3.10	3.00
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BLUEBERRY.

Cabot.		
2 to 3 ft.	2.10	2.00
Rubel.		
2 to 3 ft.	2.10	2.00

All items can be certified for western shipment.

All Evergreens B&B at List Prices.

Deliveries by full truck and carload only—or call for your own stock.

NO BOXING

(Prices subject to change without notice.)

HEAVY EVERGREEN LINERS

from field rows

To fill the demand that you know you will have two and three years from now, Hill's are offering this list of quick-maturing, heavy-grade Evergreen Liners.

All have been grown for **at least** two years in unprotected field rows and are ready to produce, for you, salable Evergreens in the shortest time possible.

We ask that, to enable us to serve you best, you place your order for Fall or Spring with us at an early date.

	Each per	Each per		Each per	Each per
PFITZER JUNIPER (Juniperus Chinensis Pfitzeriana)	100	1000	ANDORRA JUNIPER (Juniperus Horizontalis Plumosa)	100	1000
12 to 15 ins., xx, fld.	\$0.80	\$0.70	12 to 15 ins., xx, fld.	\$0.80	\$0.70
15 to 18 ins., xx, fld.	1.00	.90			
GOLDEN PROSTRATE JUNIPER (Juniperus Communis Depressa Aurea)			DWARF JAPANESE JUNIPER (Juniperus Procumbens Nana)		
10 to 12 ins., xx, fld.	1.00	...	10 to 12 ins., xx, fld.	1.00	.90
VASE-SHAPED JUNIPER (Juniperus Communis Depressa Vase Shape)			BLACK HILLS SPRUCE (Picea Glauca Densata)		
12 to 15 ins., xx, fld.	1.00	.90	10 to 12 ins., xx, fld.	.40	.30
GLOBE HILLBUSH JUNIPER (Juniperus Virginialis Globosa)			12 to 15 ins., xx, fld.	.50	.40
10 to 12 ins., xx, fld.	1.00	.90	15 to 18 ins., fld.	.60	.50
RED CEDAR (Juniperus Virginiana)			AUSTRIAN PINE (Pinus Nigra)		
18 to 24 ins., xx, fld.	.50	.40	10 to 12 ins., xx, fld.	.35	.25
2 to 2 1/2 ft., xx, fld.	.60	.50	SCOTCH PINE (Pinus Sylvestris)		
CANAERT JUNIPER (Juniperus Virginiana Canaerti)			12 to 15 ins., xx, fld.	.40	.30
15 to 18 ins., xx, fld.	1.10	1.00	HATFIELD YEW (Taxus Media Hatfieldi)		
18 to 24 ins., xx, fld.	1.20	1.10	8 to 10 ins., xx, fld.	.55	.45
ERECT CANAERT JUNIPER (Juniperus Virginiana Canaerti Erecta)			AMERICAN ARBORVITAE (Thuja Occidentalis)		
15 to 18 ins., xx, fld.	1.10	1.00	12 to 18 ins., xx, fld.	.50	.40
HILLSPIRE JUNIPER (Juniperus Virginiana Cupressifolia)			DARK GREEN AMERICAN ARBORVITAE (Thuja Occidentalis Nigra)		
15 to 18 ins., xx, fld.	1.10	1.00	12 to 18 ins., xx, fld.	.70	.60
18 to 24 ins., xx, fld.	1.20	1.10	PYRAMIDAL ARBORVITAE (Thuja Occidentalis Pyramidalis)		
HILL DUNDEE JUNIPER (Juniperus Virginiana Hilli)			15 to 18 ins., xx, fld.	.60	.50
15 to 18 ins., xx, fld.	1.10	1.00	18 to 24 ins., xx, fld.	.70	.60
18 to 24 ins., xx, fld.	1.20	1.10	WOODWARD GLOBE ARBORVITAE (Thuja Occidentalis Woodwardi)		
			10 to 12 ins., xx, fld.	.60	.50

D HILL NURSERY COMPANY

Evergreen Specialists

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Largest Growers In America

DUNDEE, ILLINOIS